

FIG. 1

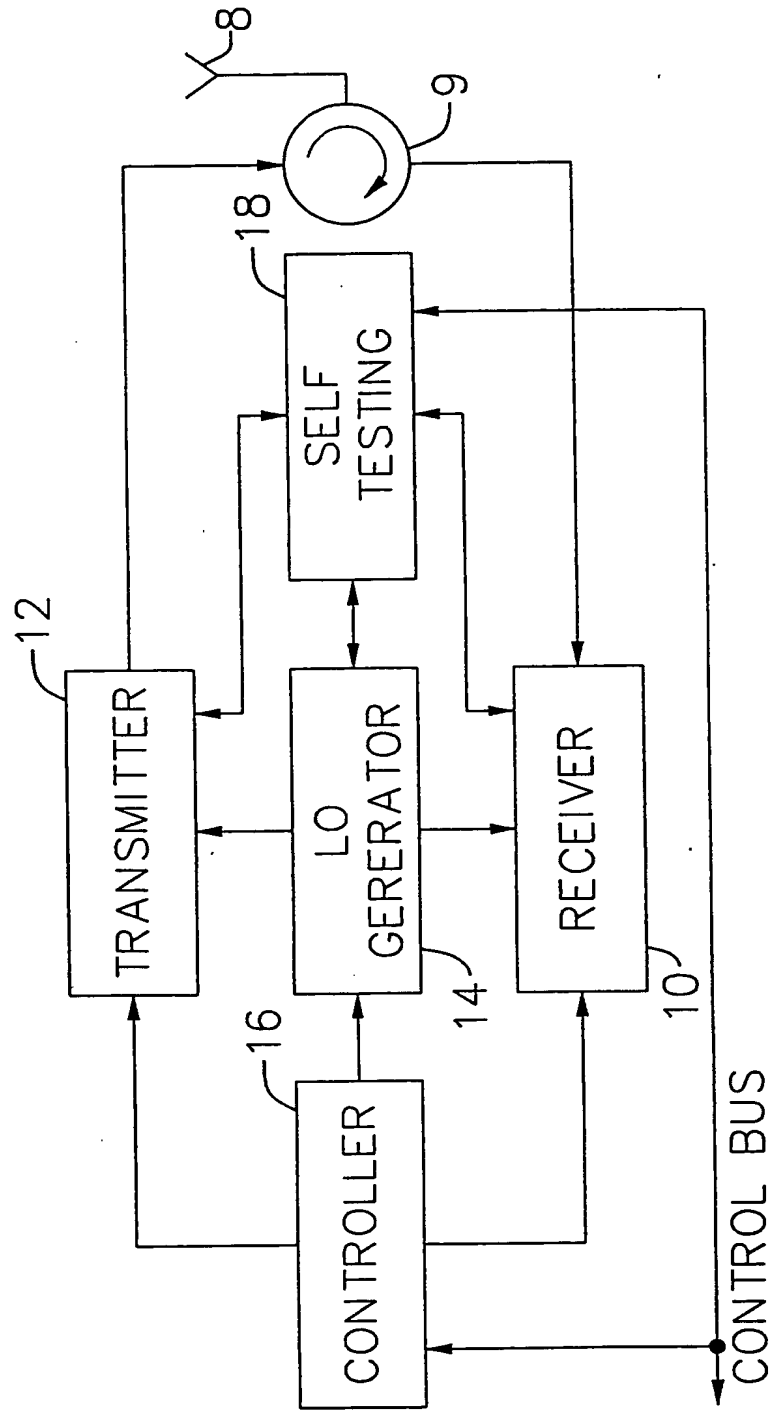


FIG. 2

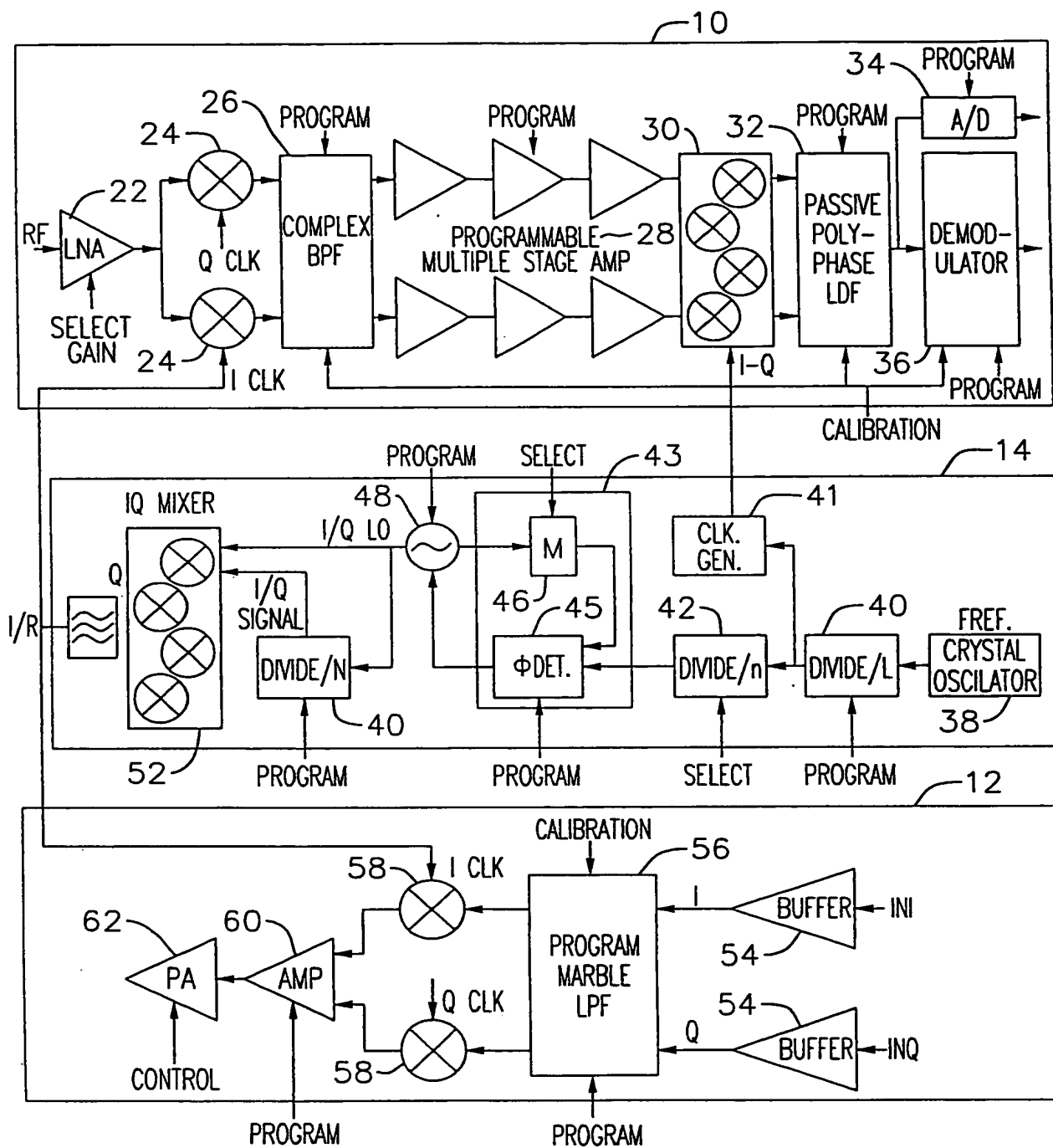


FIG. 3

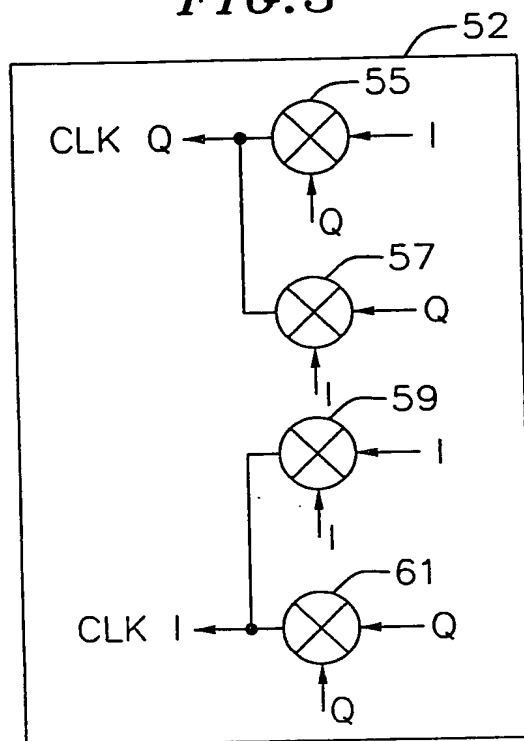
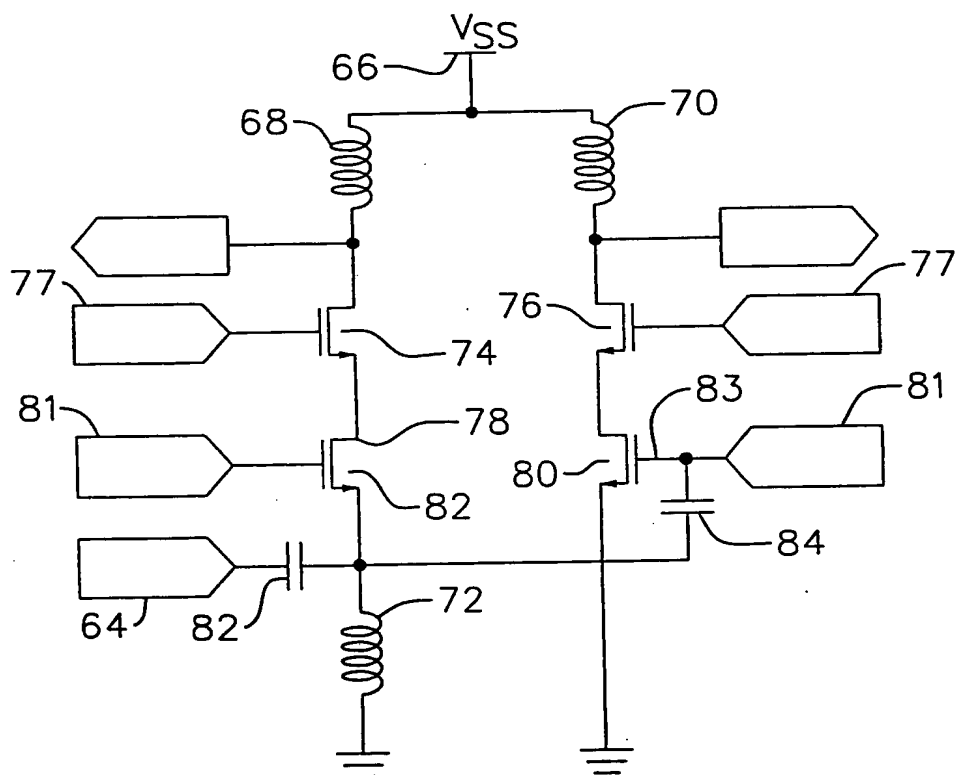


FIG. 4



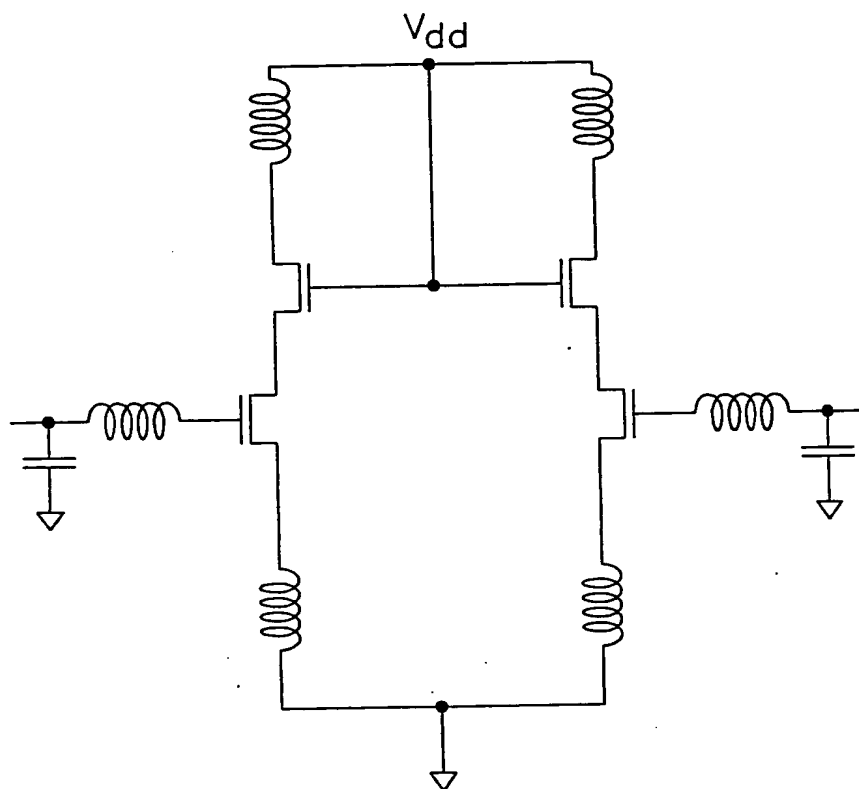


FIG. 5

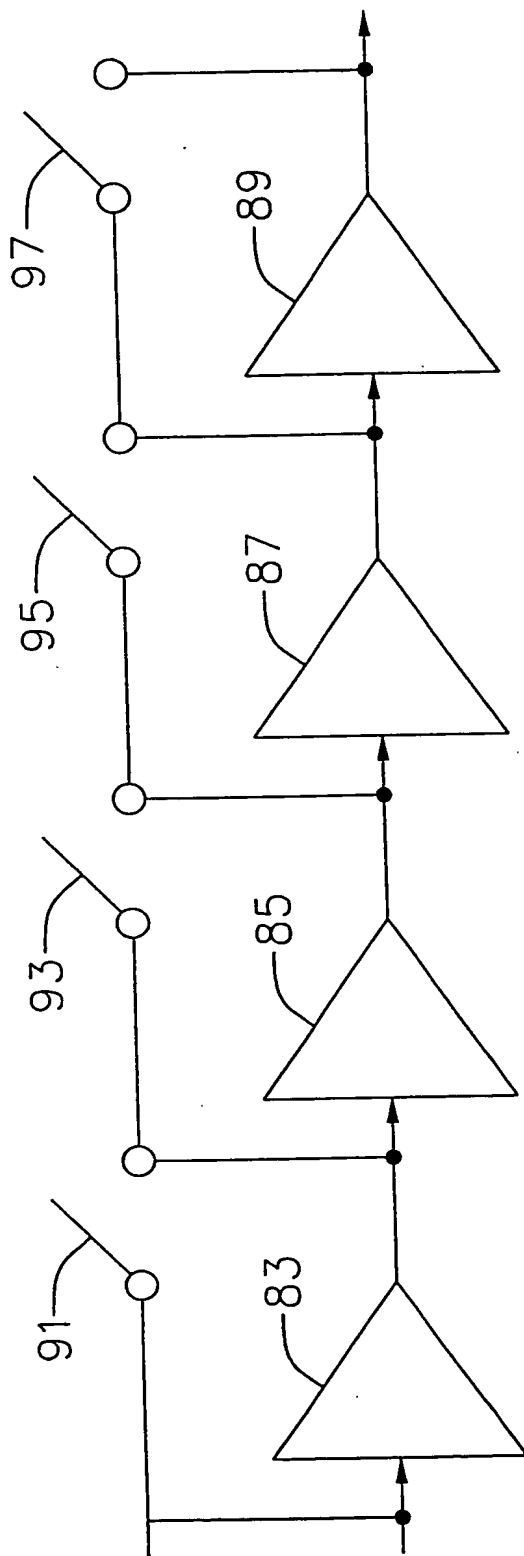
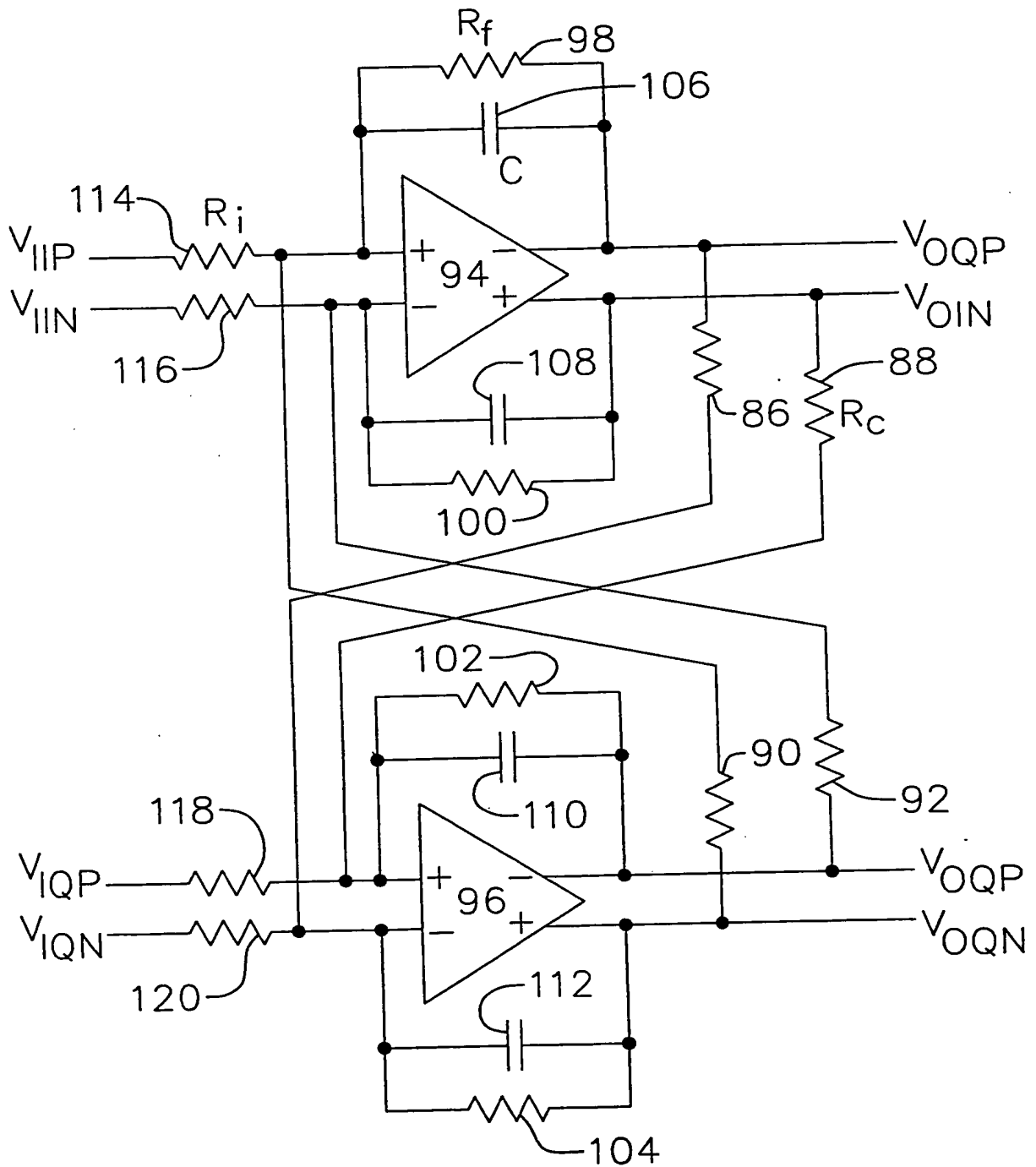
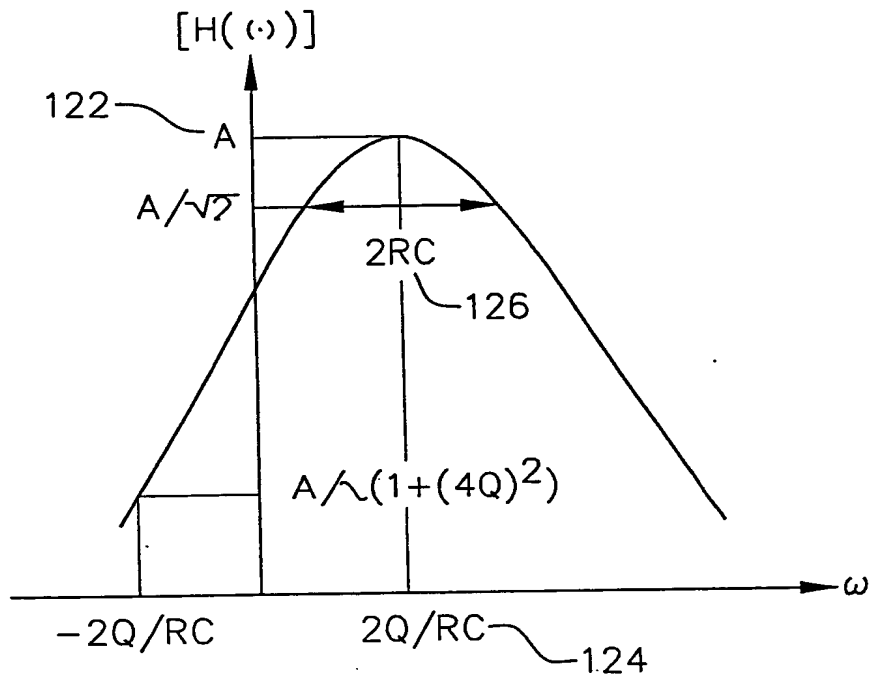


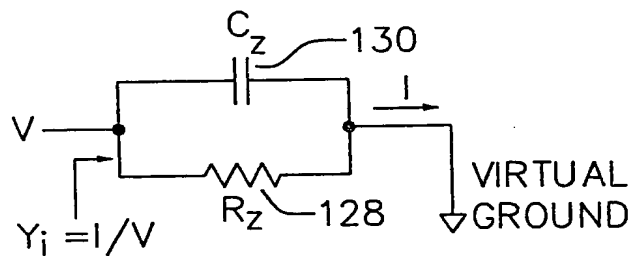
FIG. 6



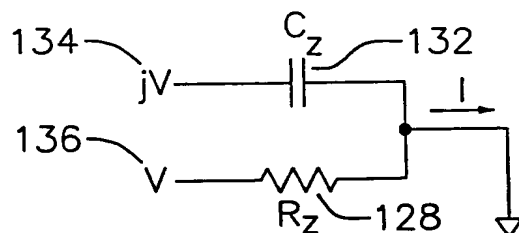
**FIG. 7**



**FIG. 8**



**FIG. 9**



**FIG. 10**

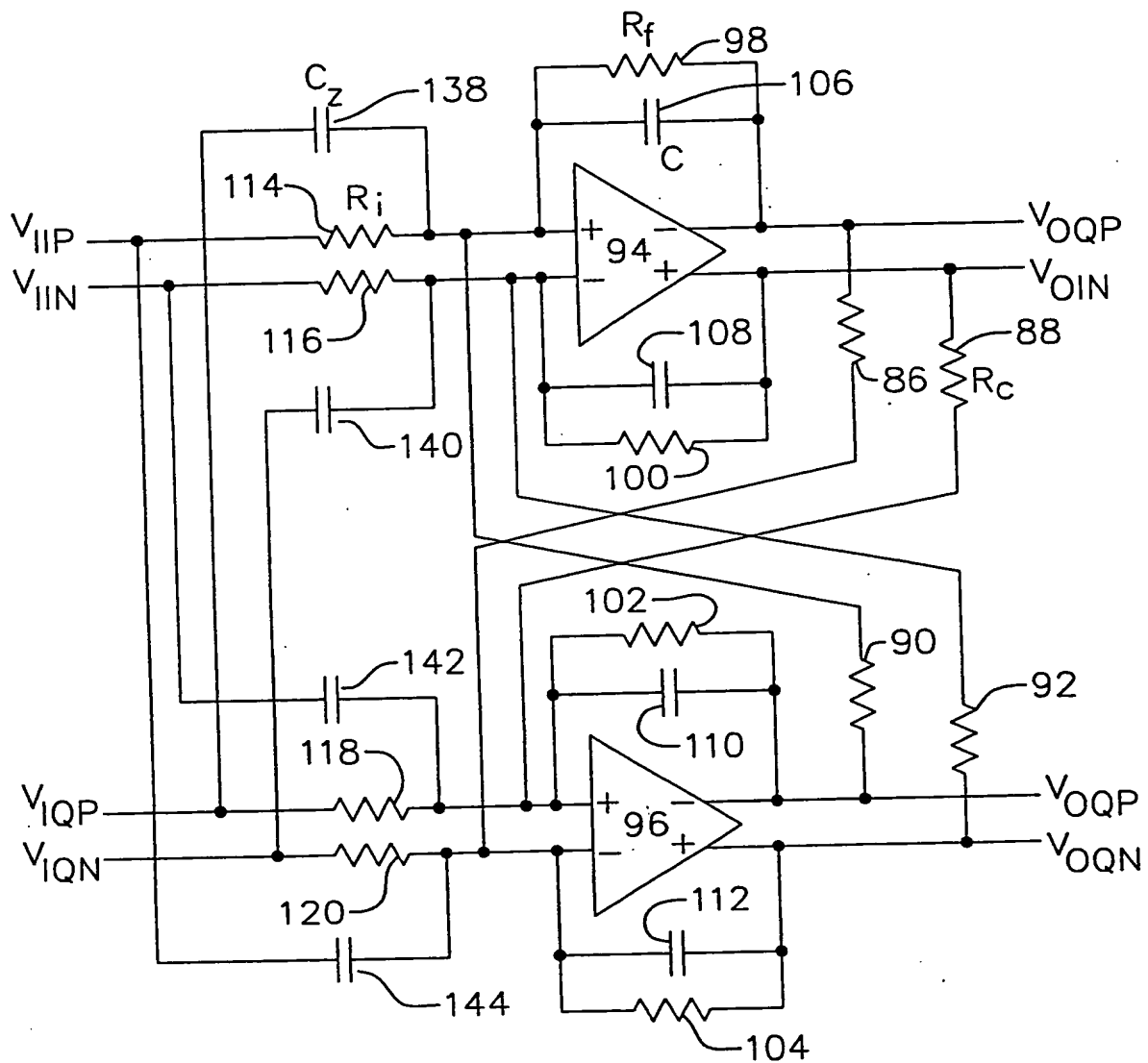
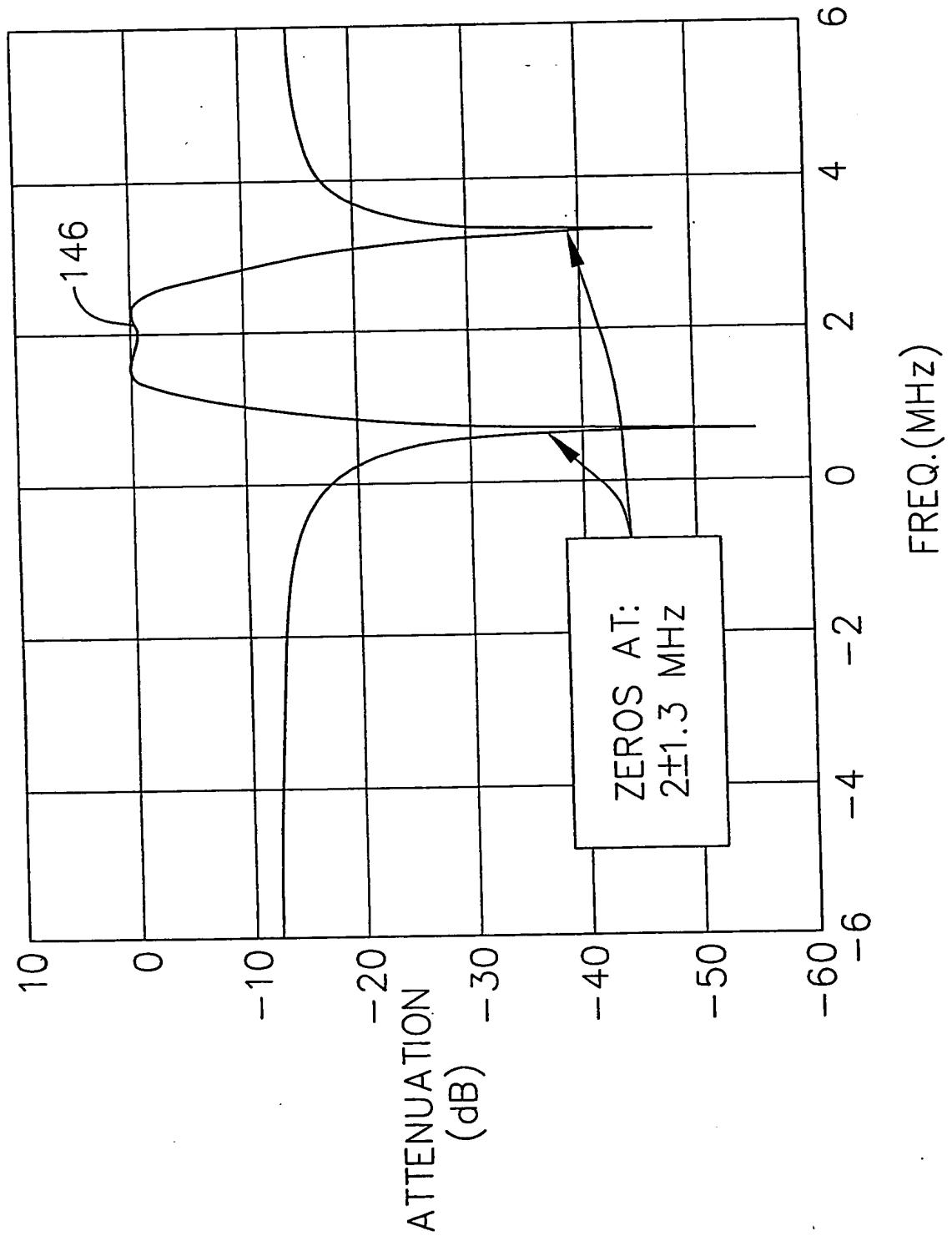


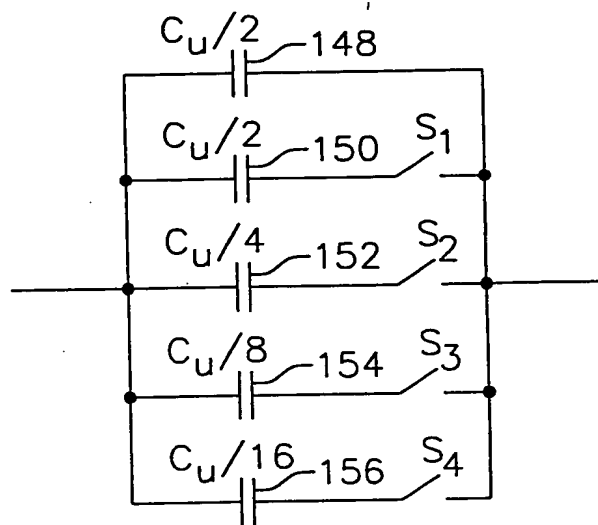




FIG. 11



*FIG. 12a*



*FIG. 12b*

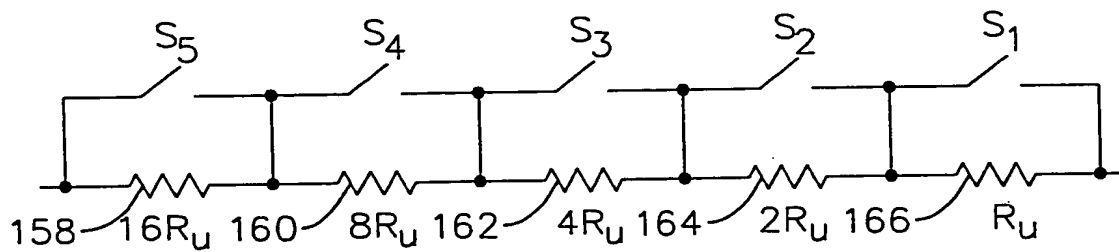


FIG. 13

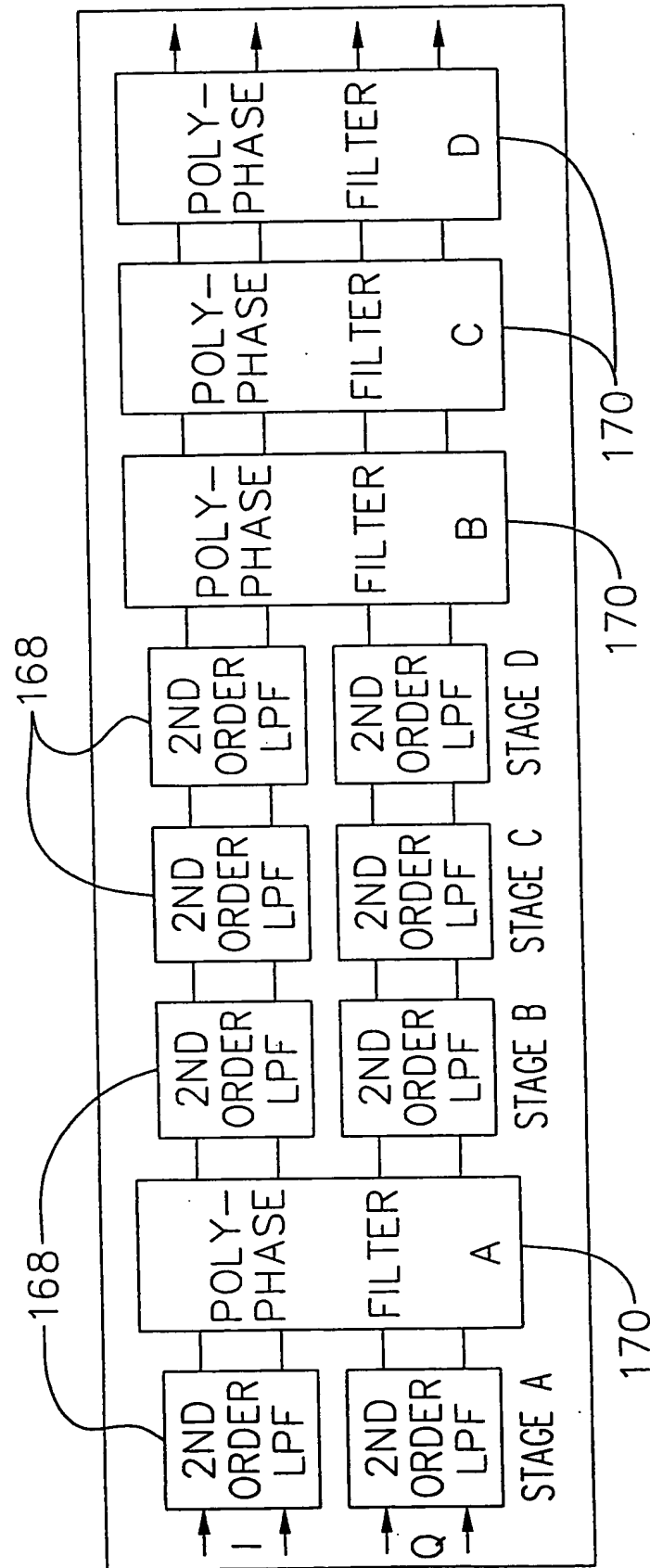
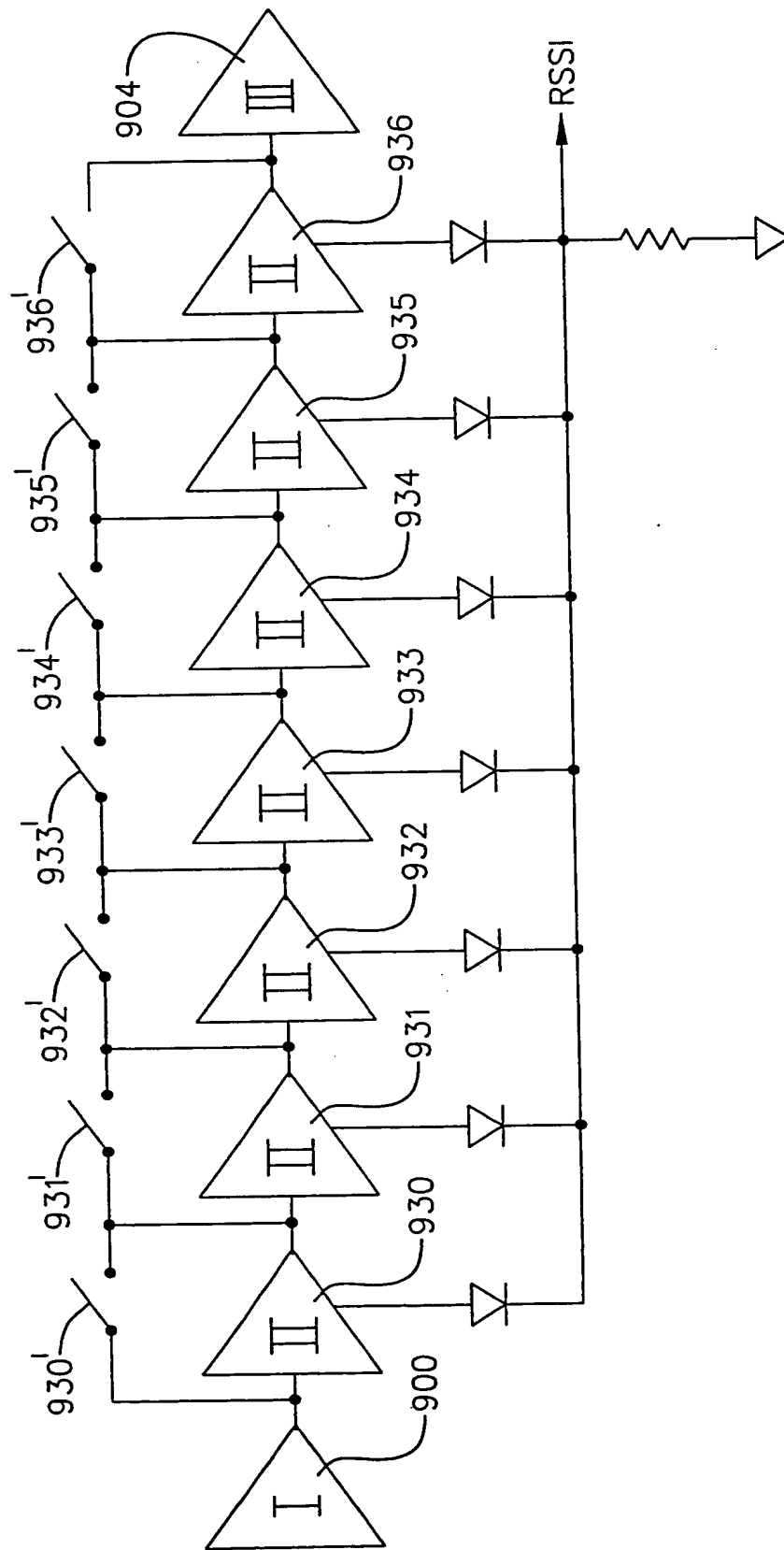
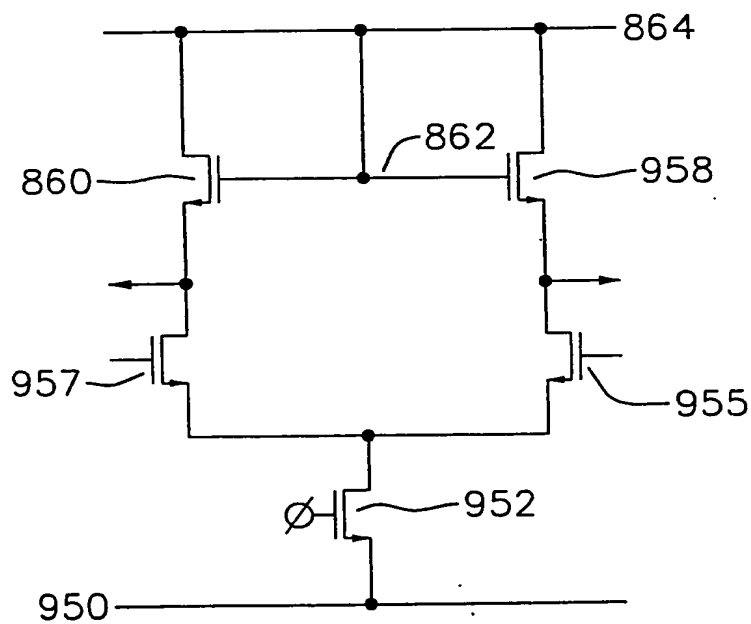
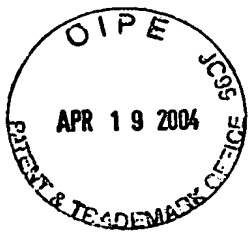


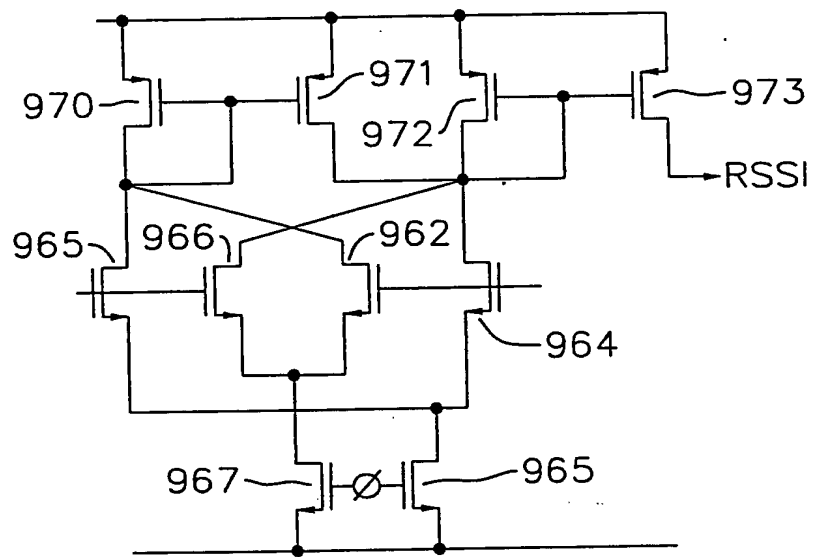
FIG. 14

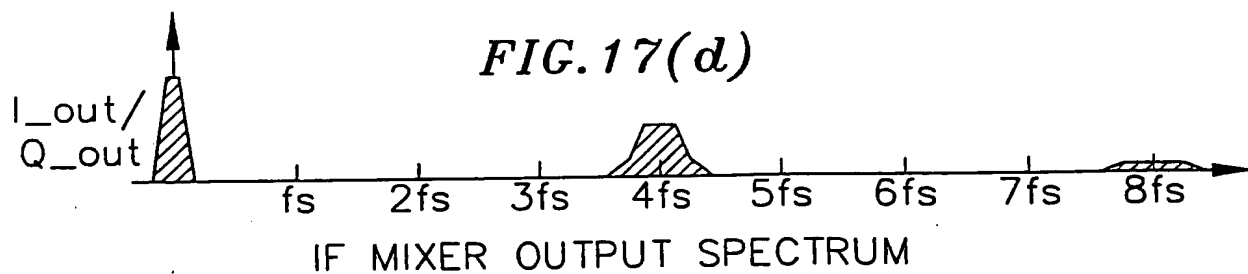
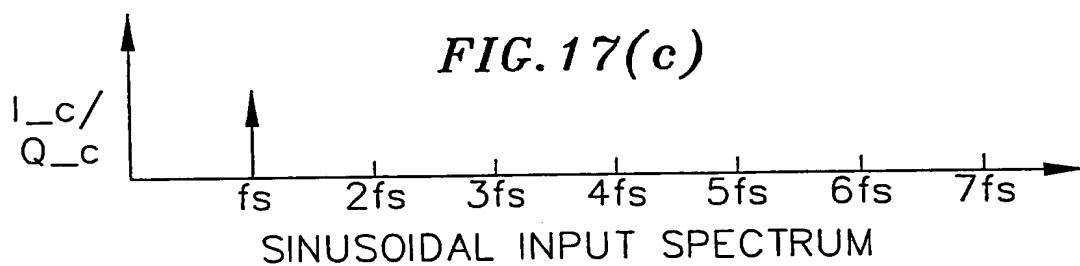
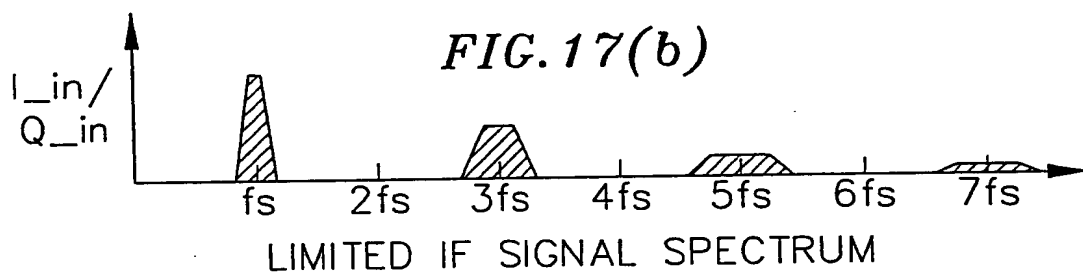
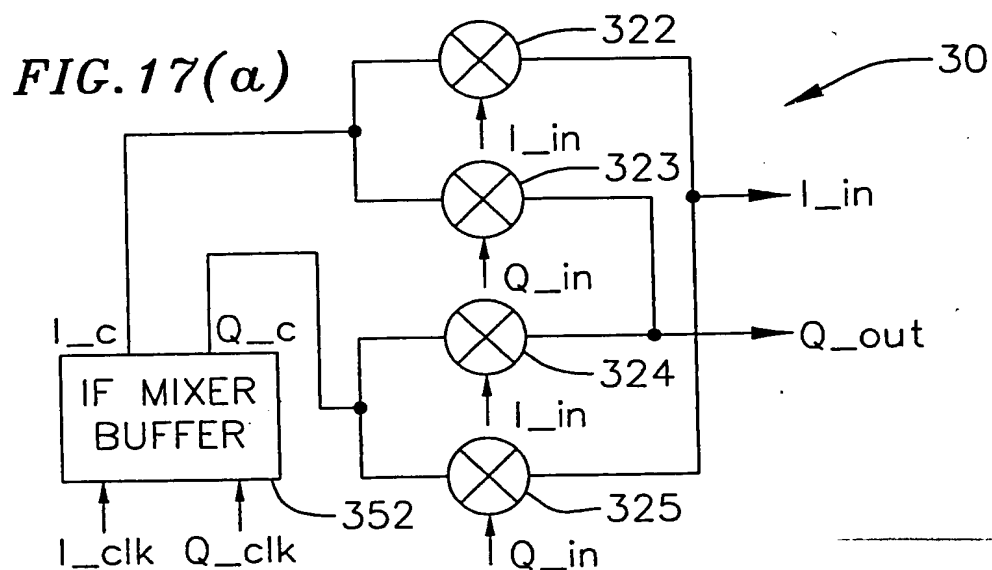




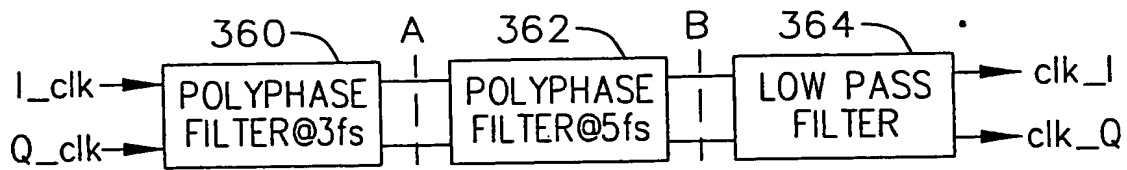


*FIG. 16b*

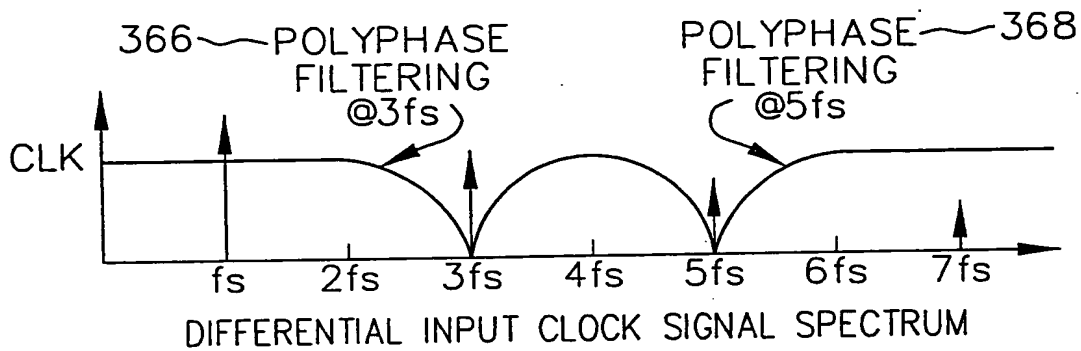




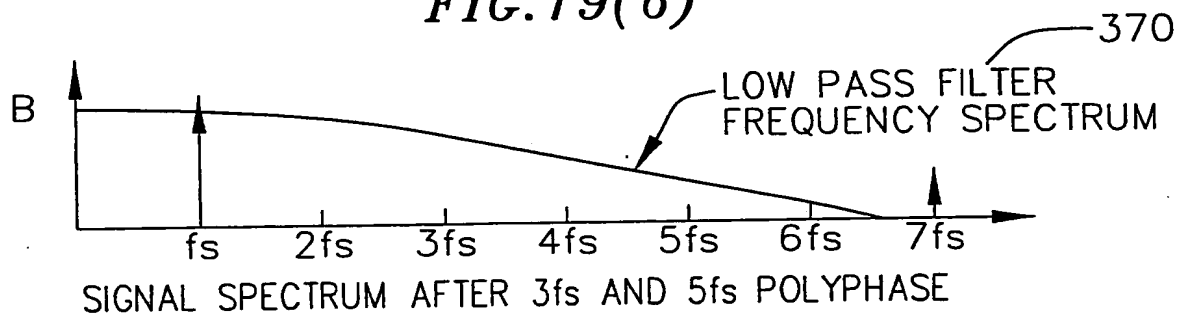
**FIG. 18**



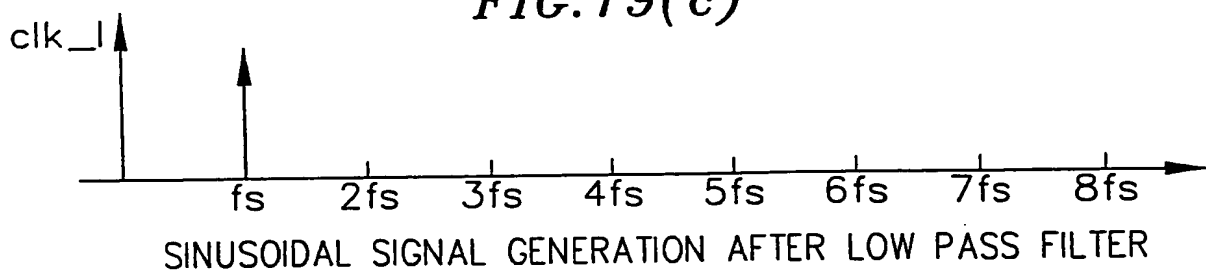
**FIG. 19(a)**



**FIG. 19(b)**



**FIG. 19(c)**

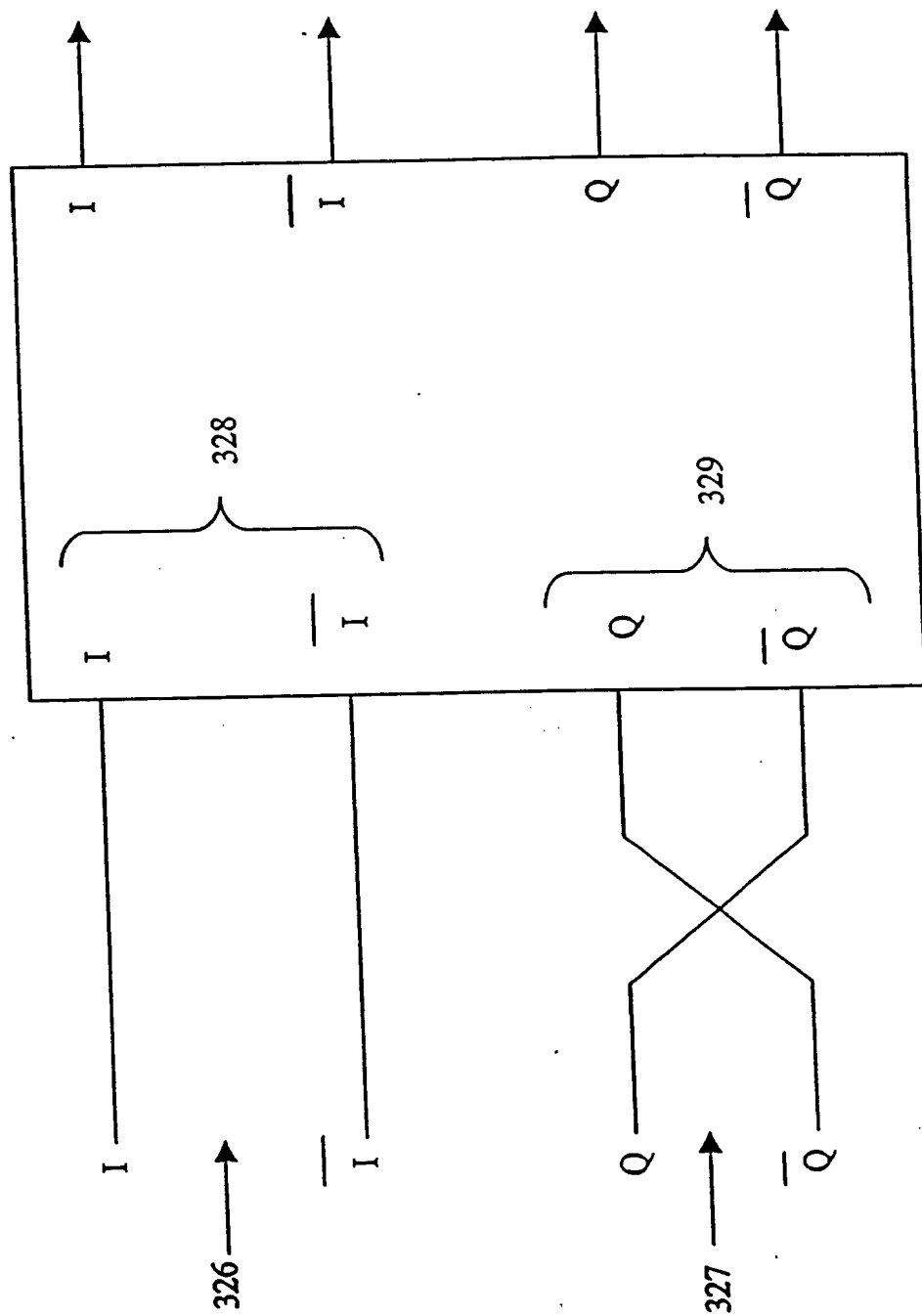


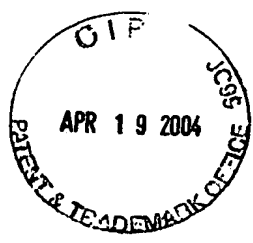




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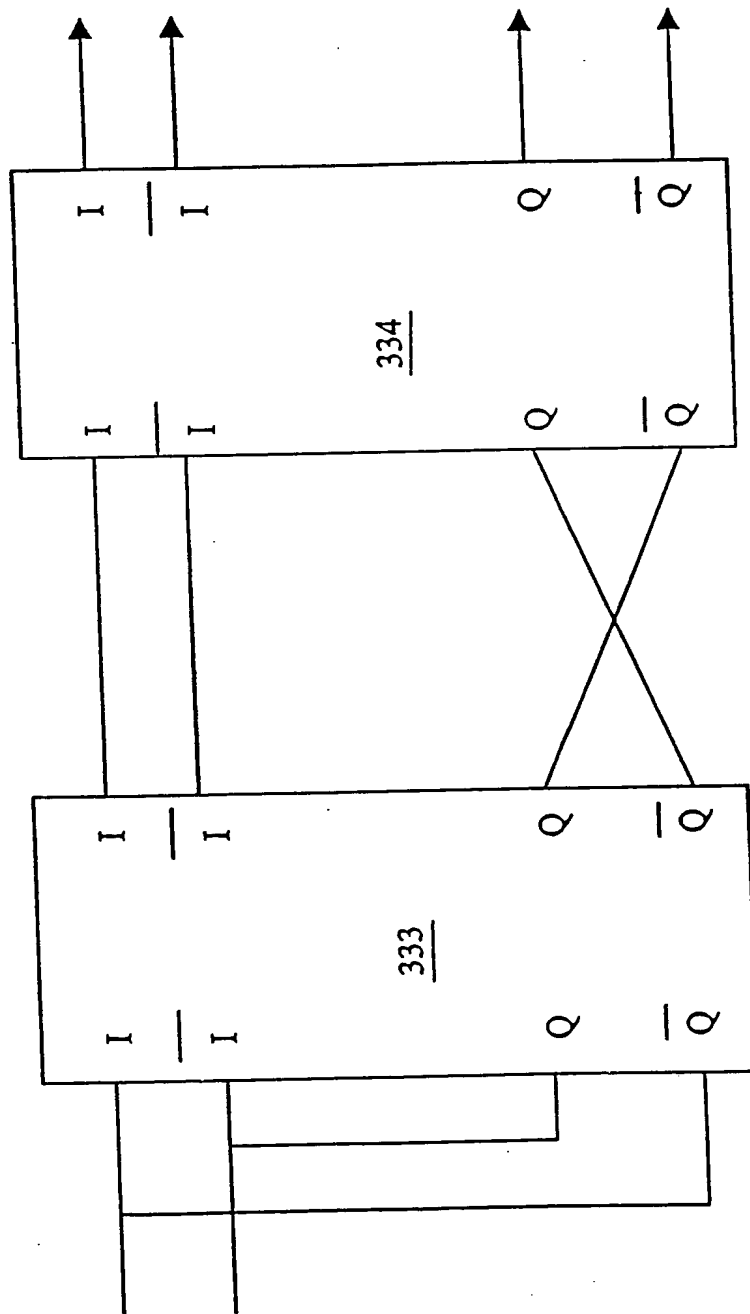
FIG. 19d



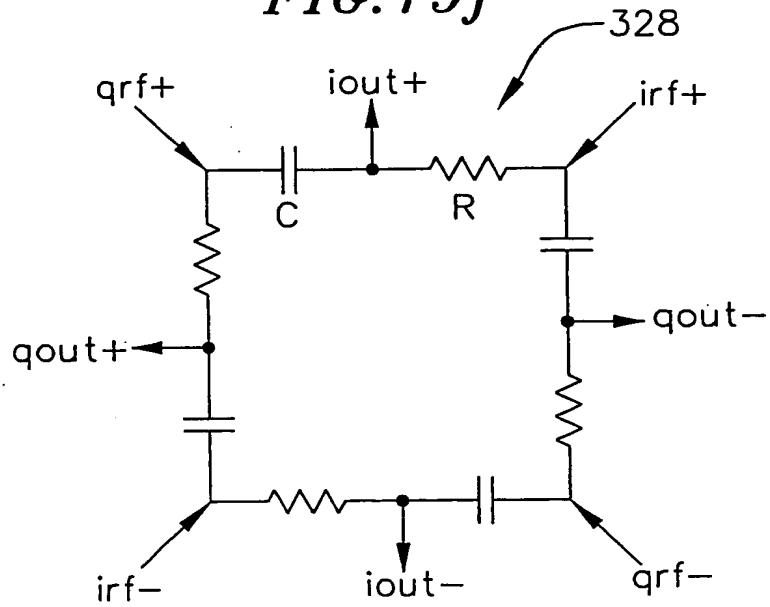


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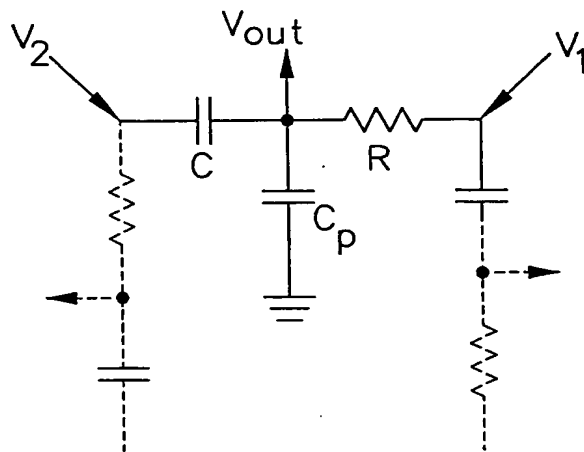
FIG. 19e



**FIG. 19f**



**FIG. 19g**

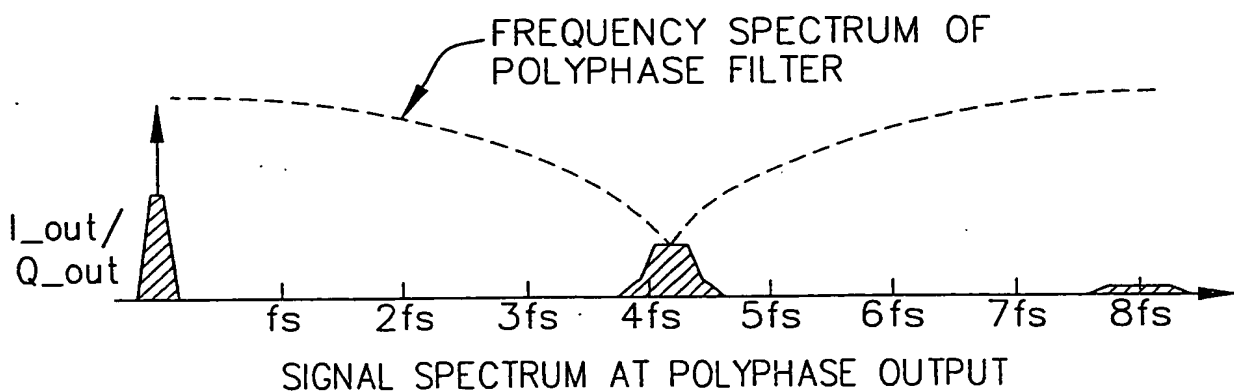


$$\omega_p = \frac{1}{R(C_p + C)}$$

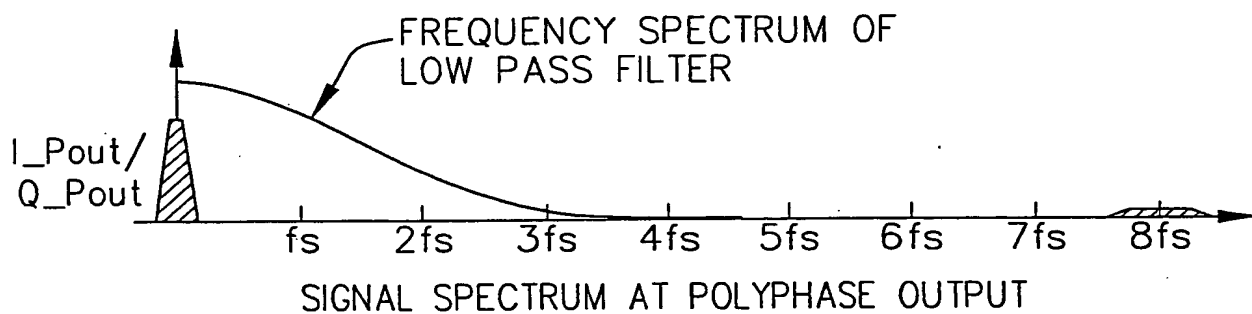
$$\omega_o = \frac{1}{RC}$$

$$V_{out} = \frac{V_1}{R(C_p + C)s + 1} + \frac{V_2 RCs}{R(C_p + C)s + 1}$$

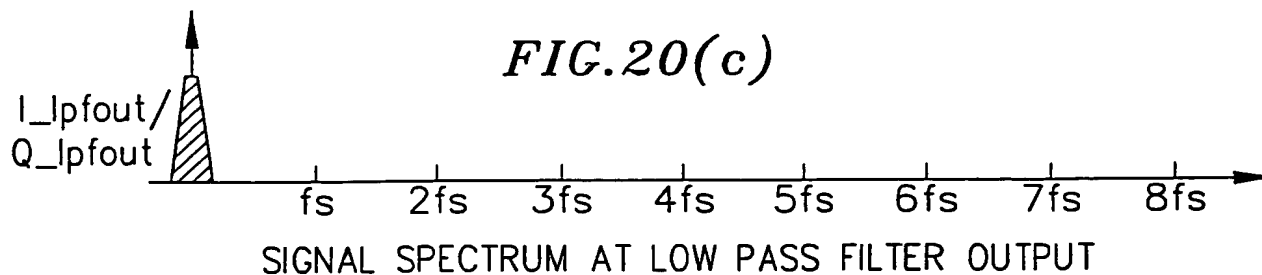
**FIG.20(a)**



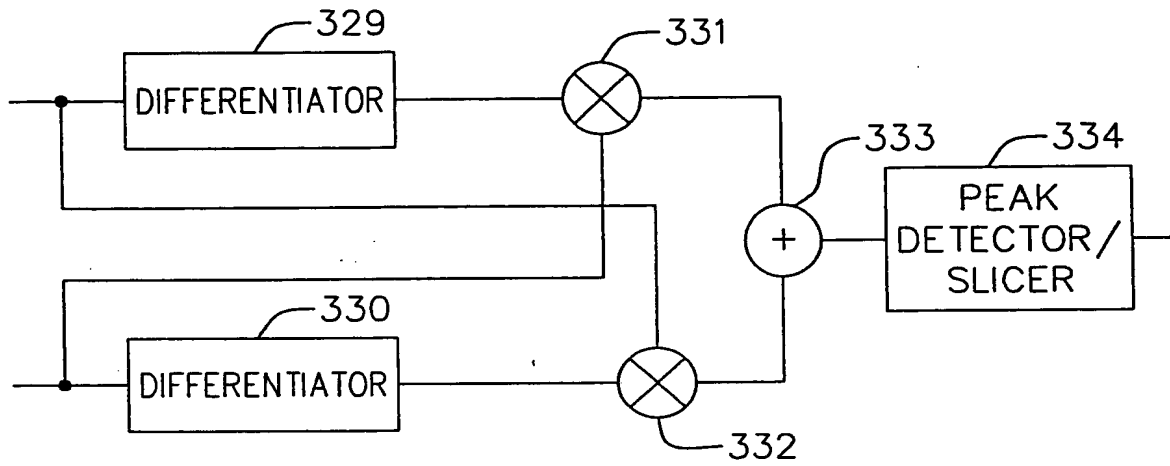
**FIG.20(b)**



**FIG.20(c)**



*FIG. 21*



*FIG. 22*

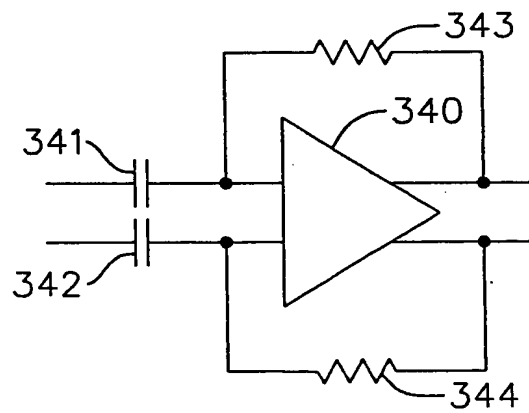


FIG. 23

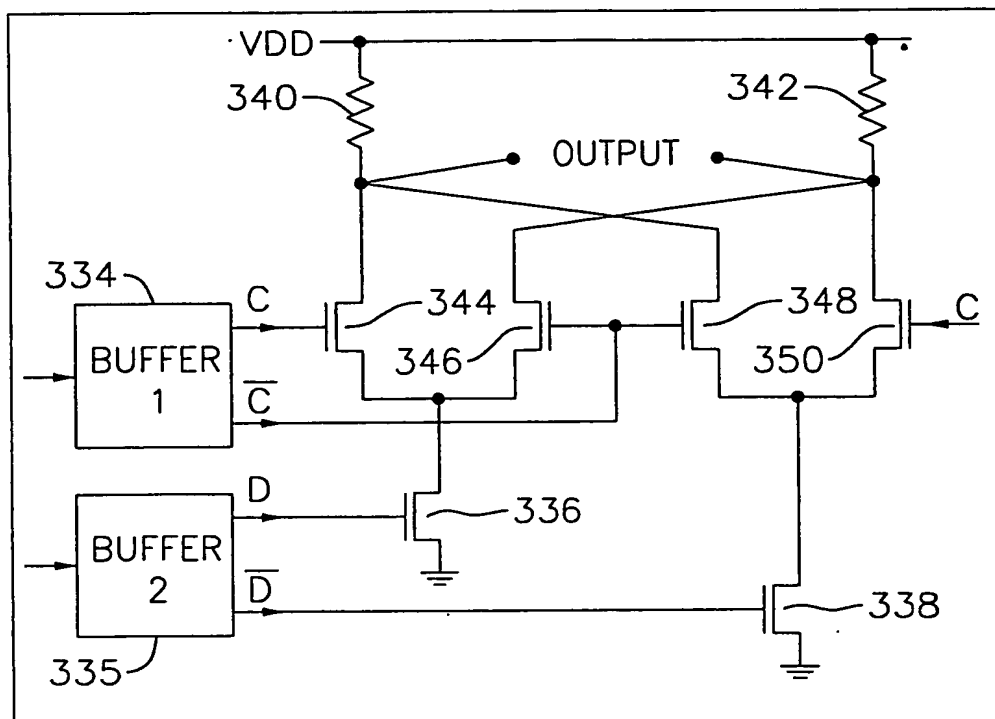


FIG. 24

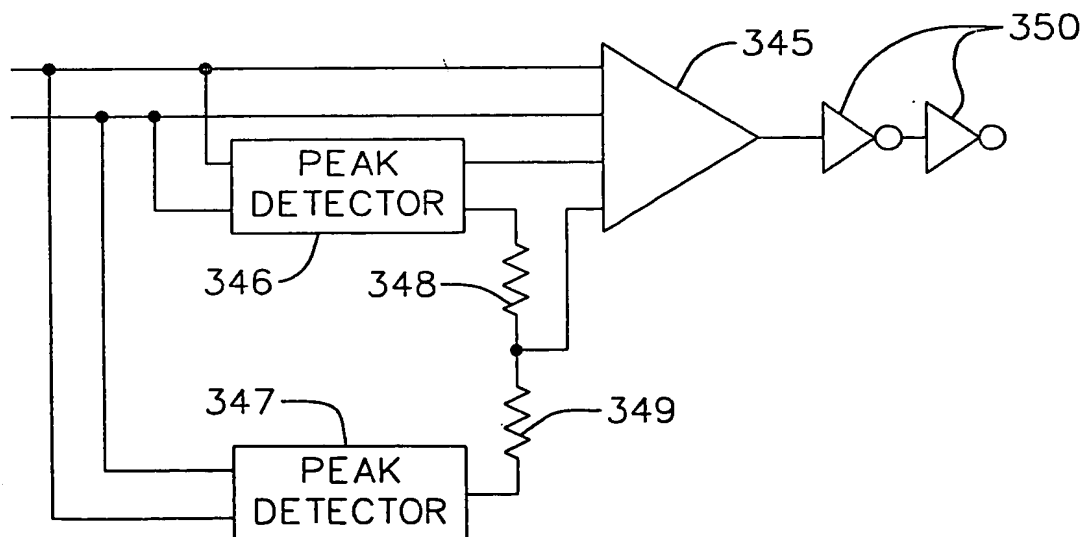
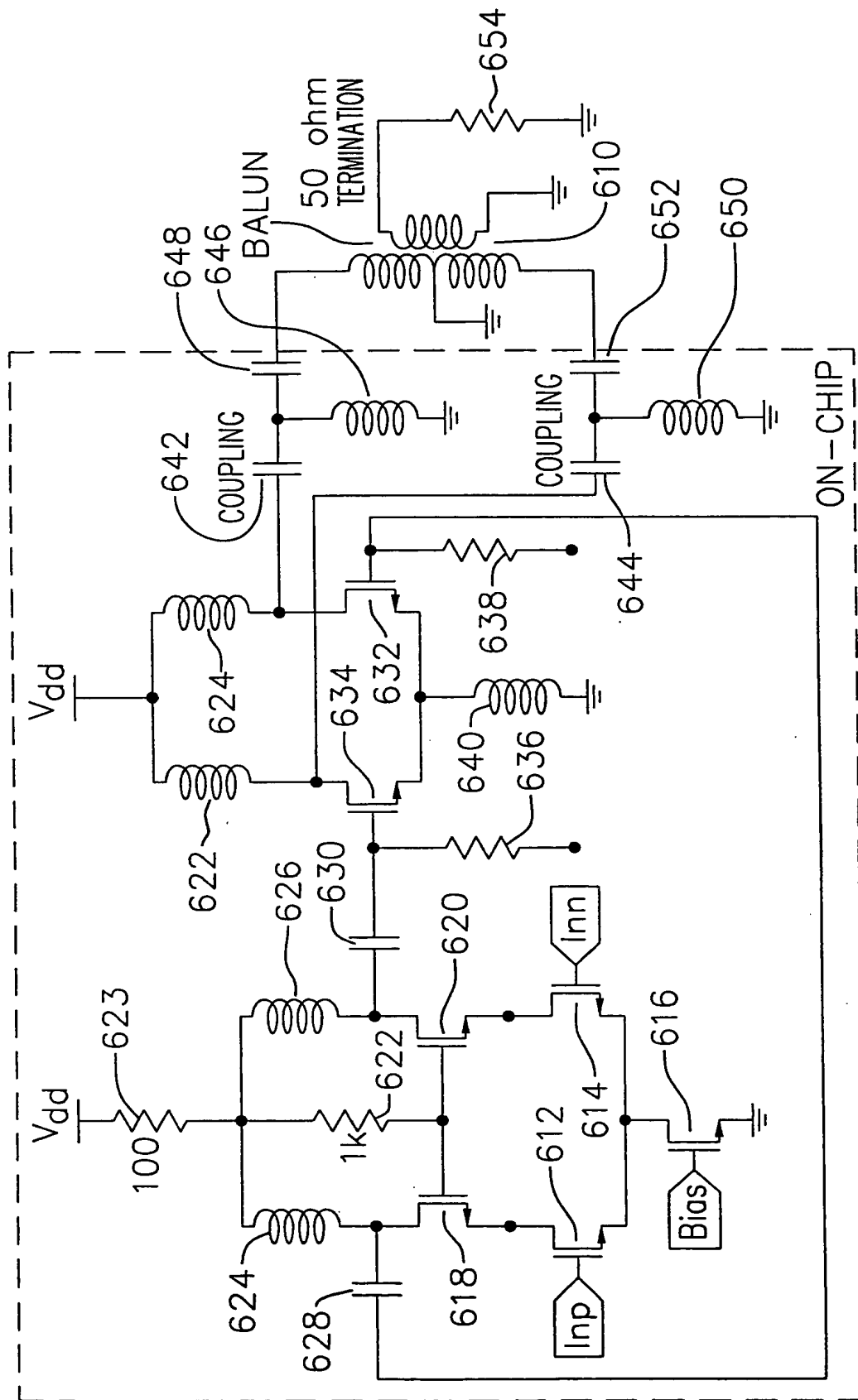
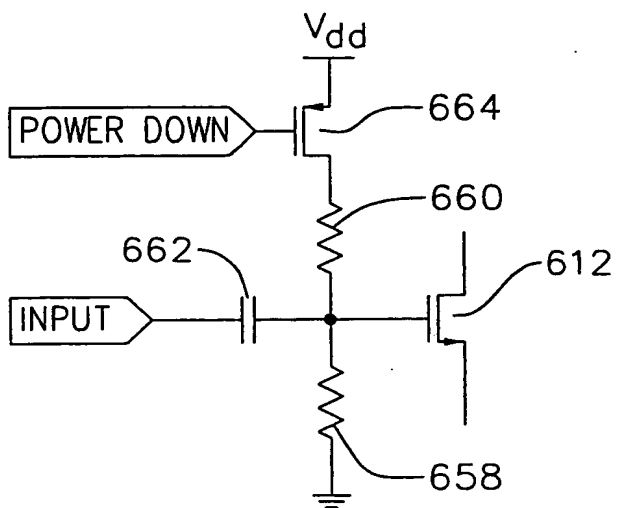


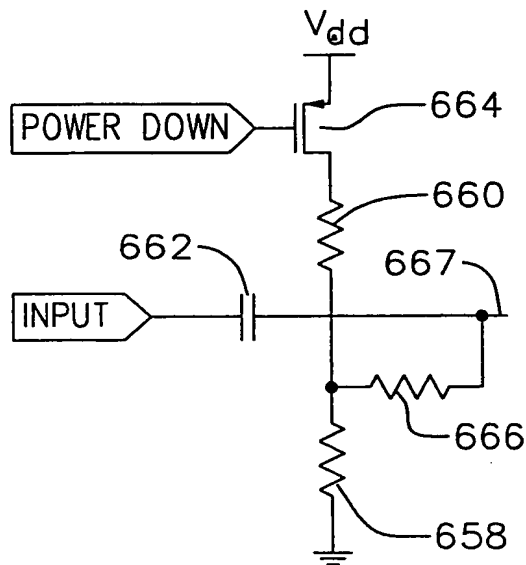
FIG. 25



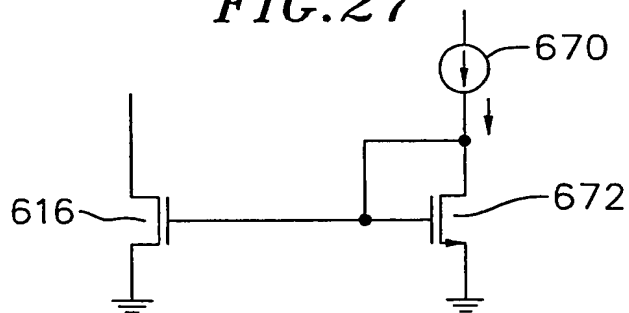
**FIG.26a**



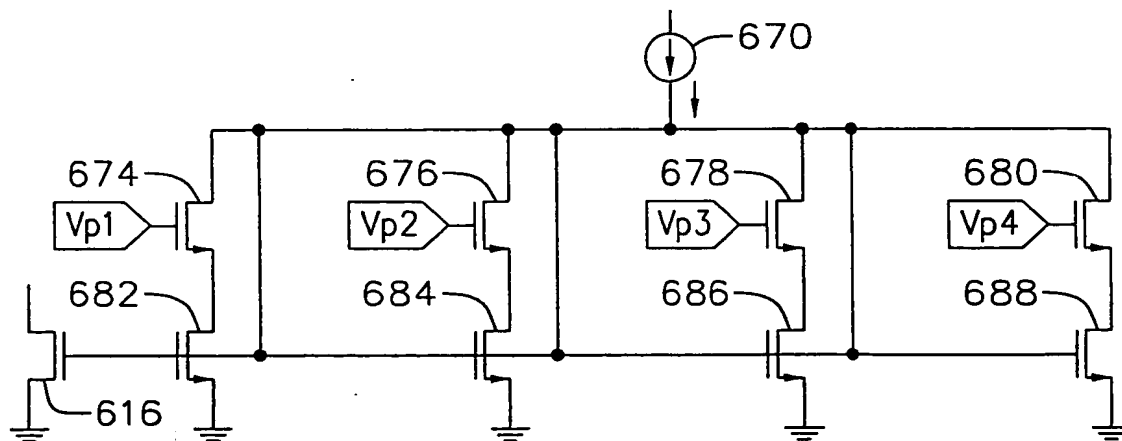
**FIG.26b**



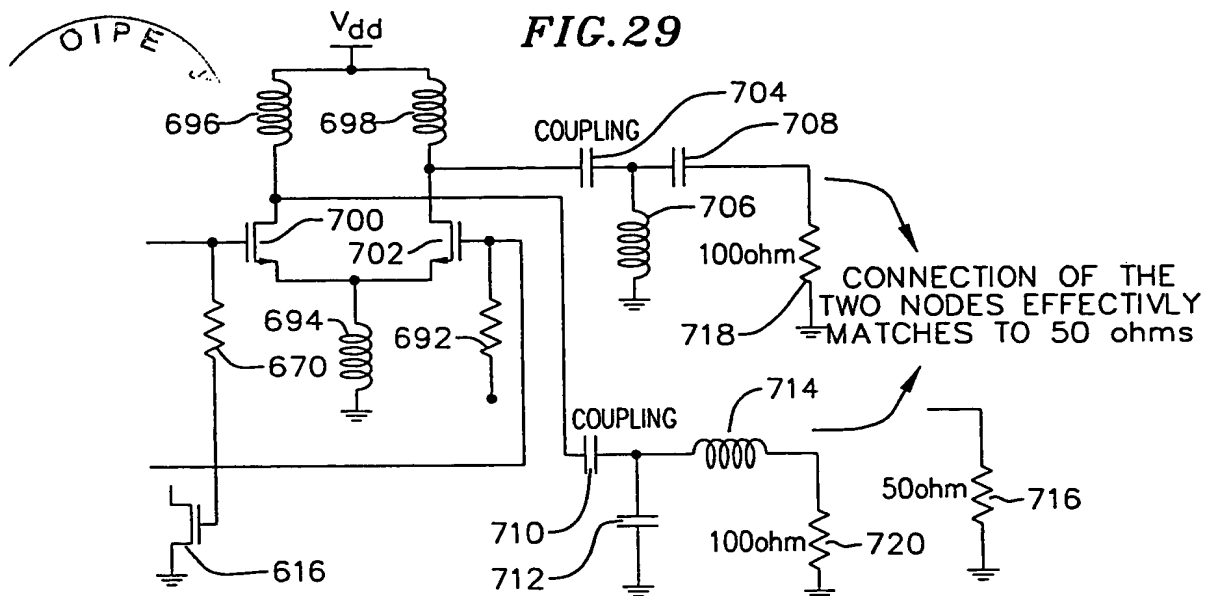
**FIG.27**



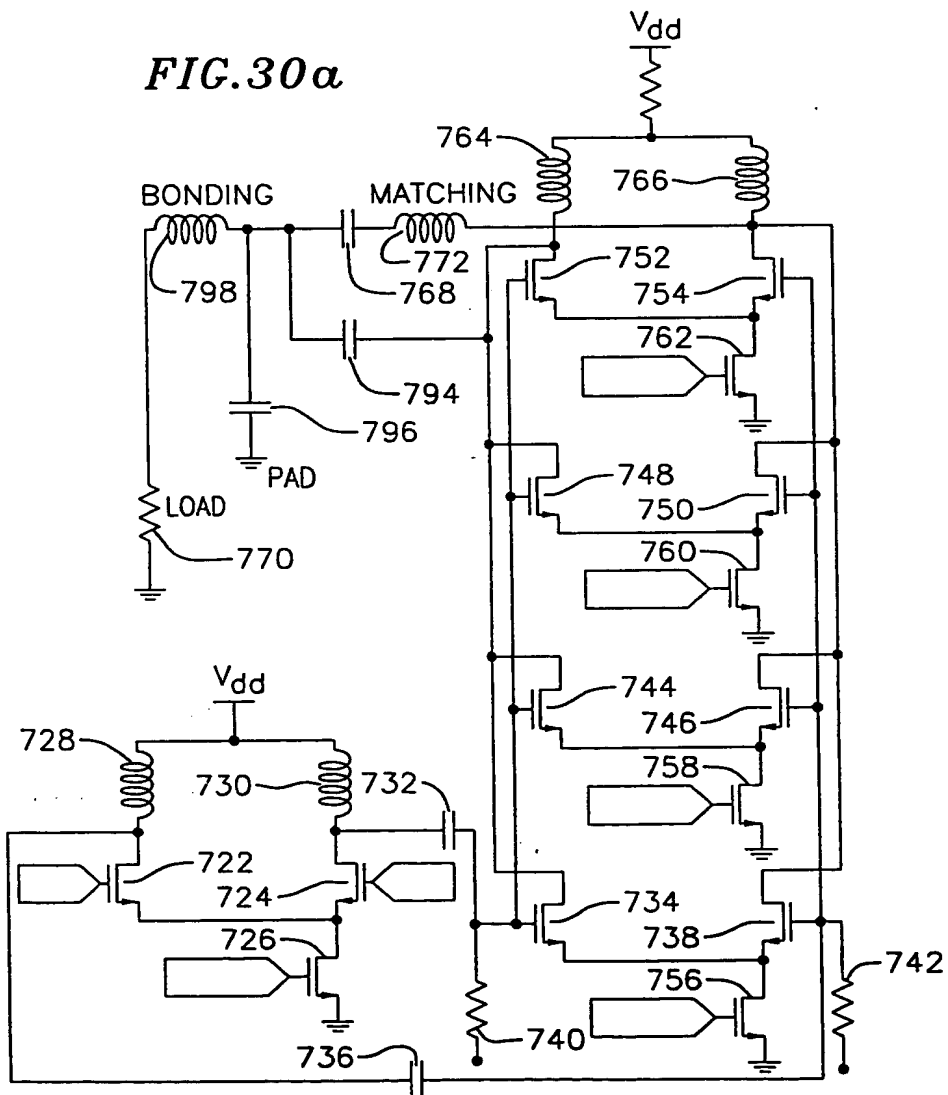
**FIG.28**







**FIG. 30a**



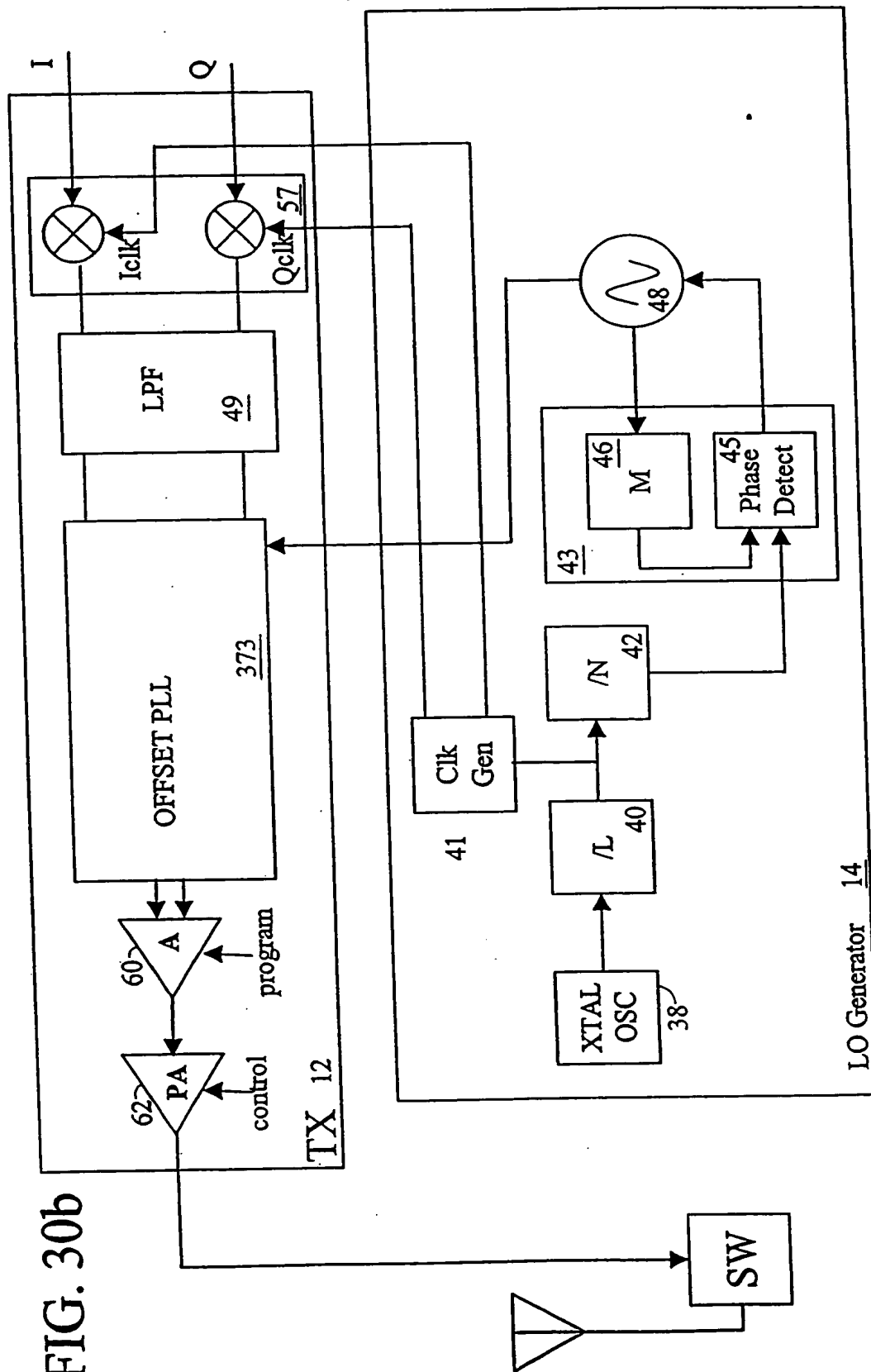
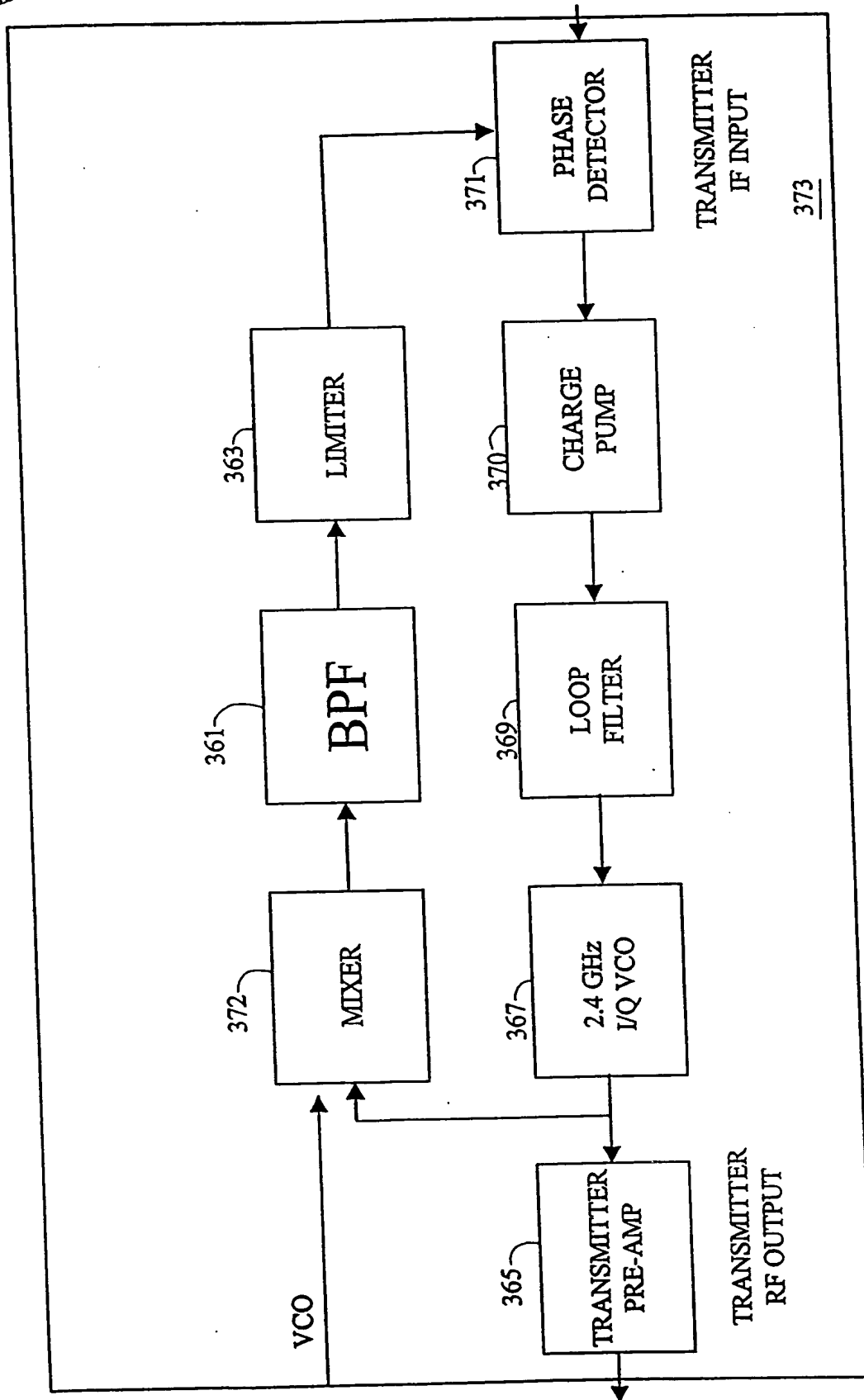


FIG. 30b



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FIG. 30c



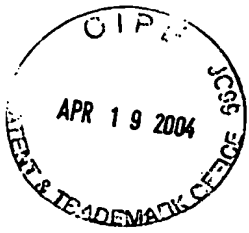


FIG. 30d

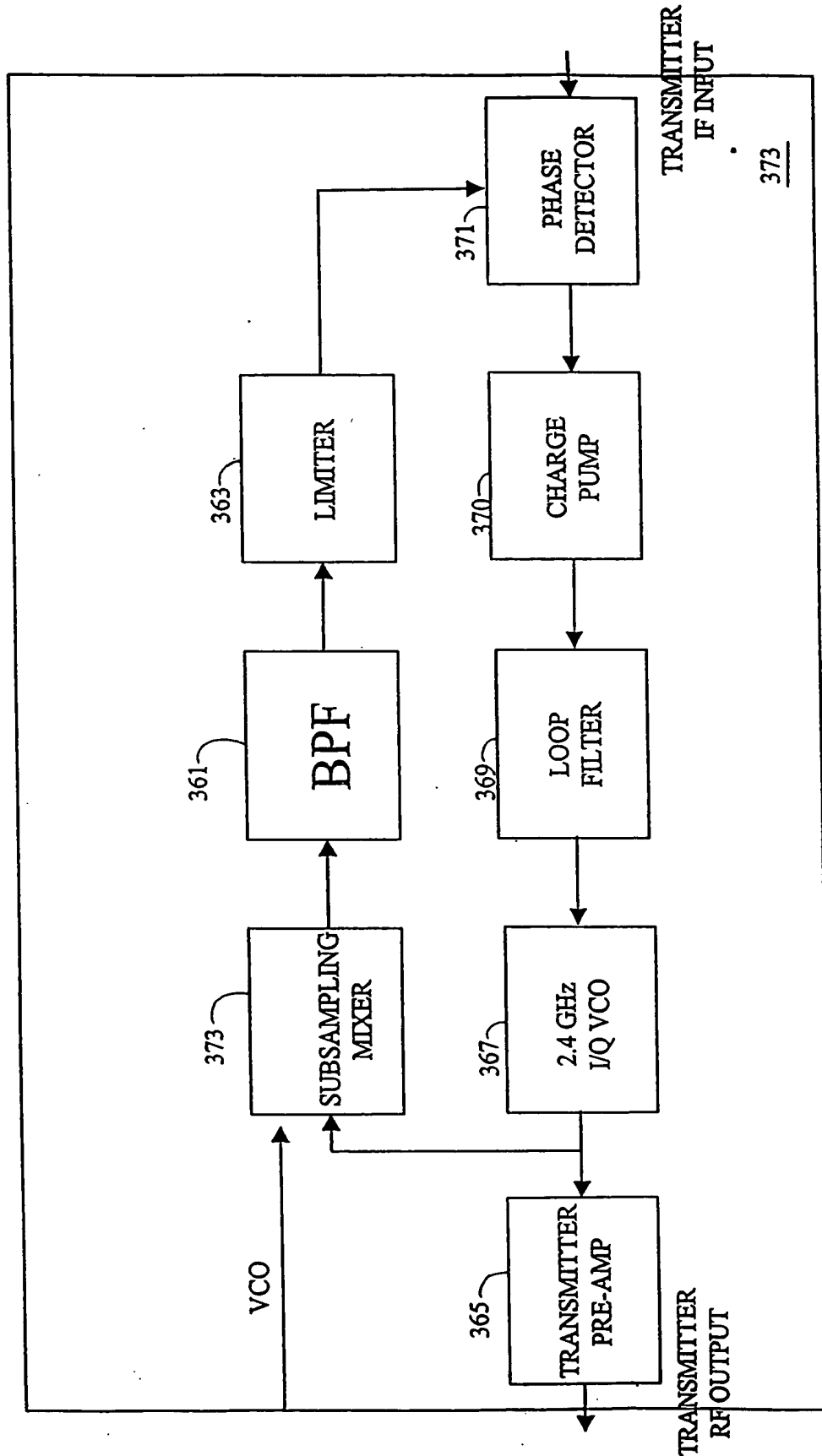
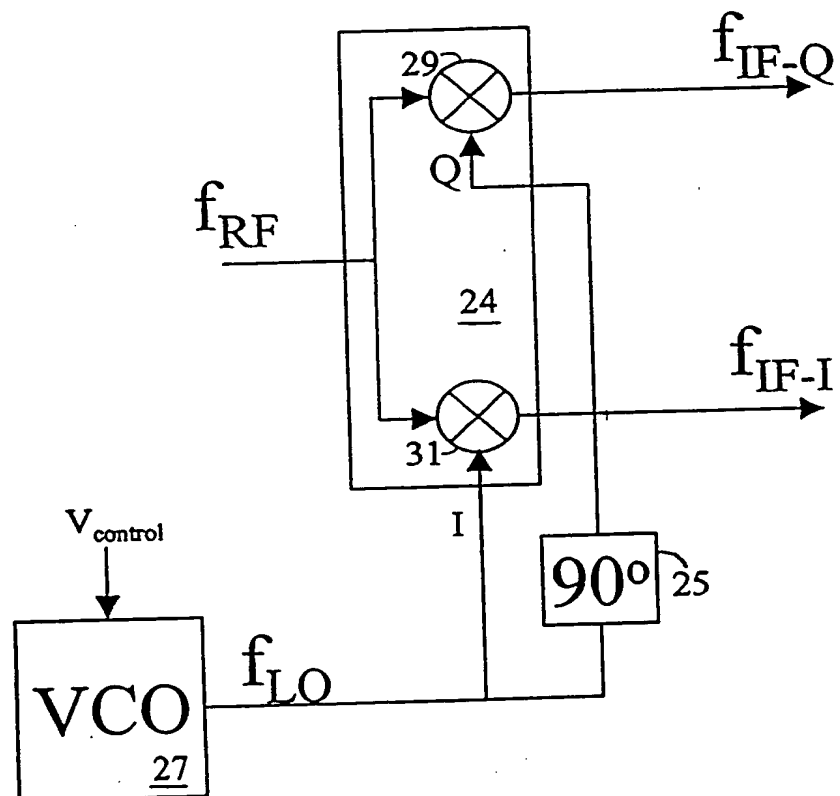
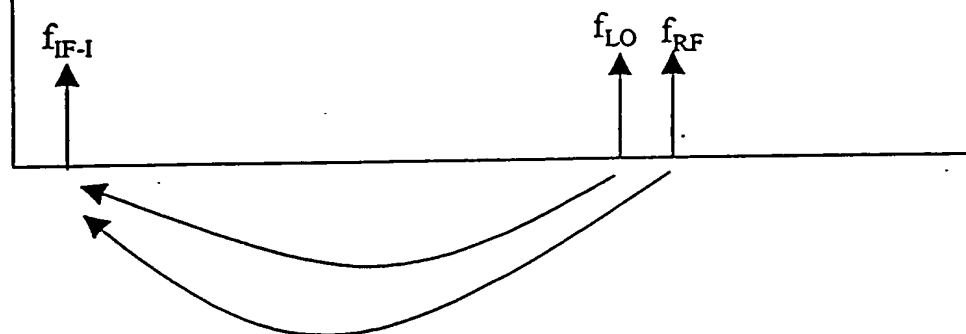
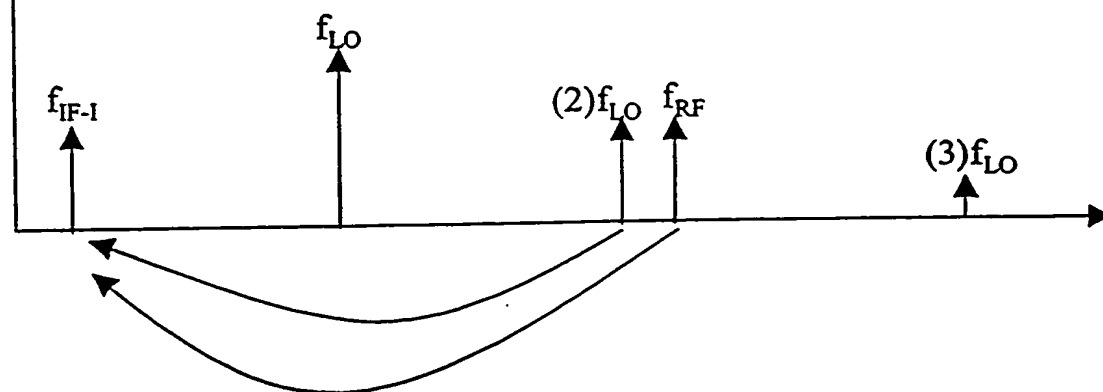
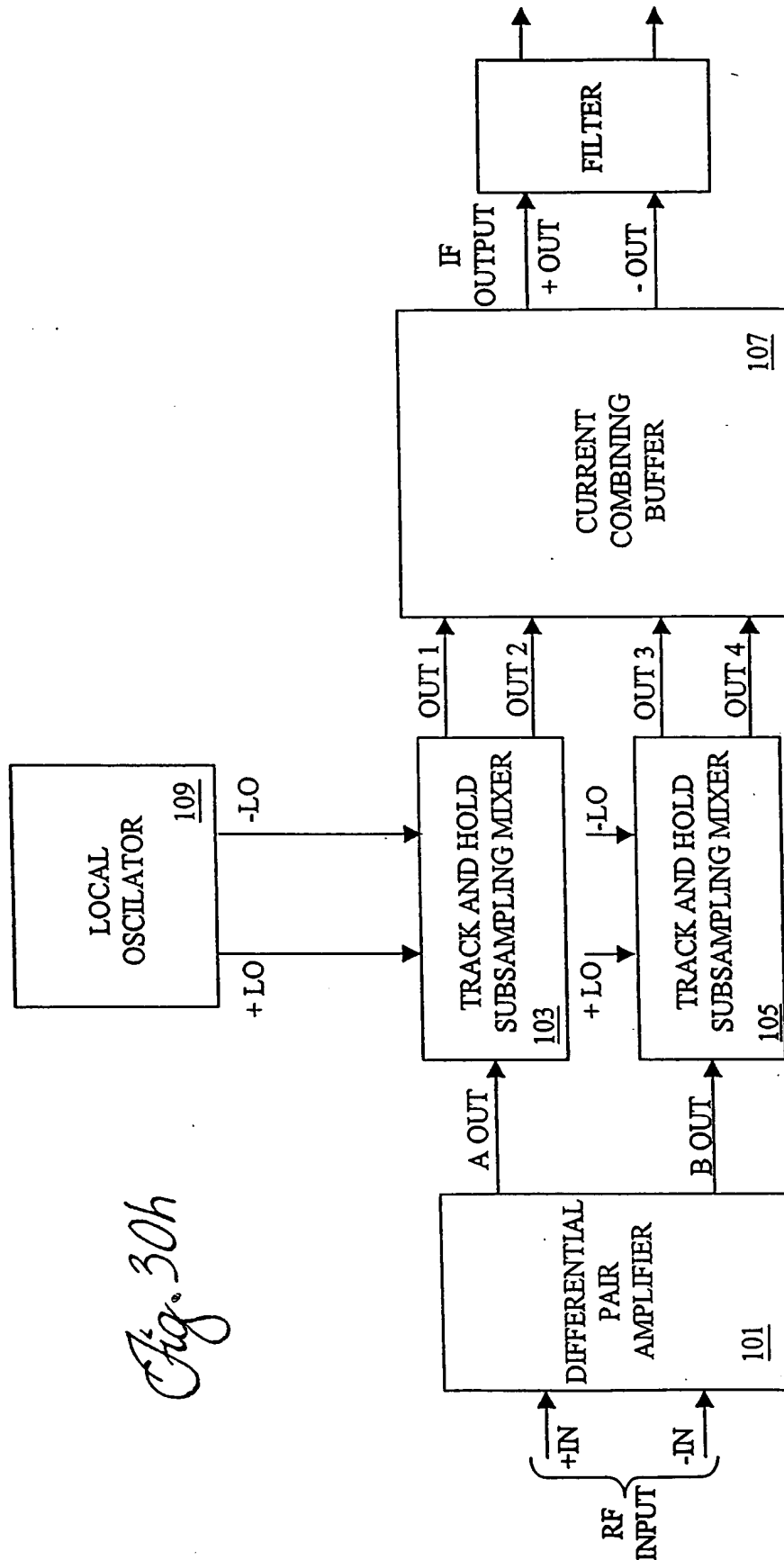


Fig. 30e



*Fig. 30f**Fig. 30g*





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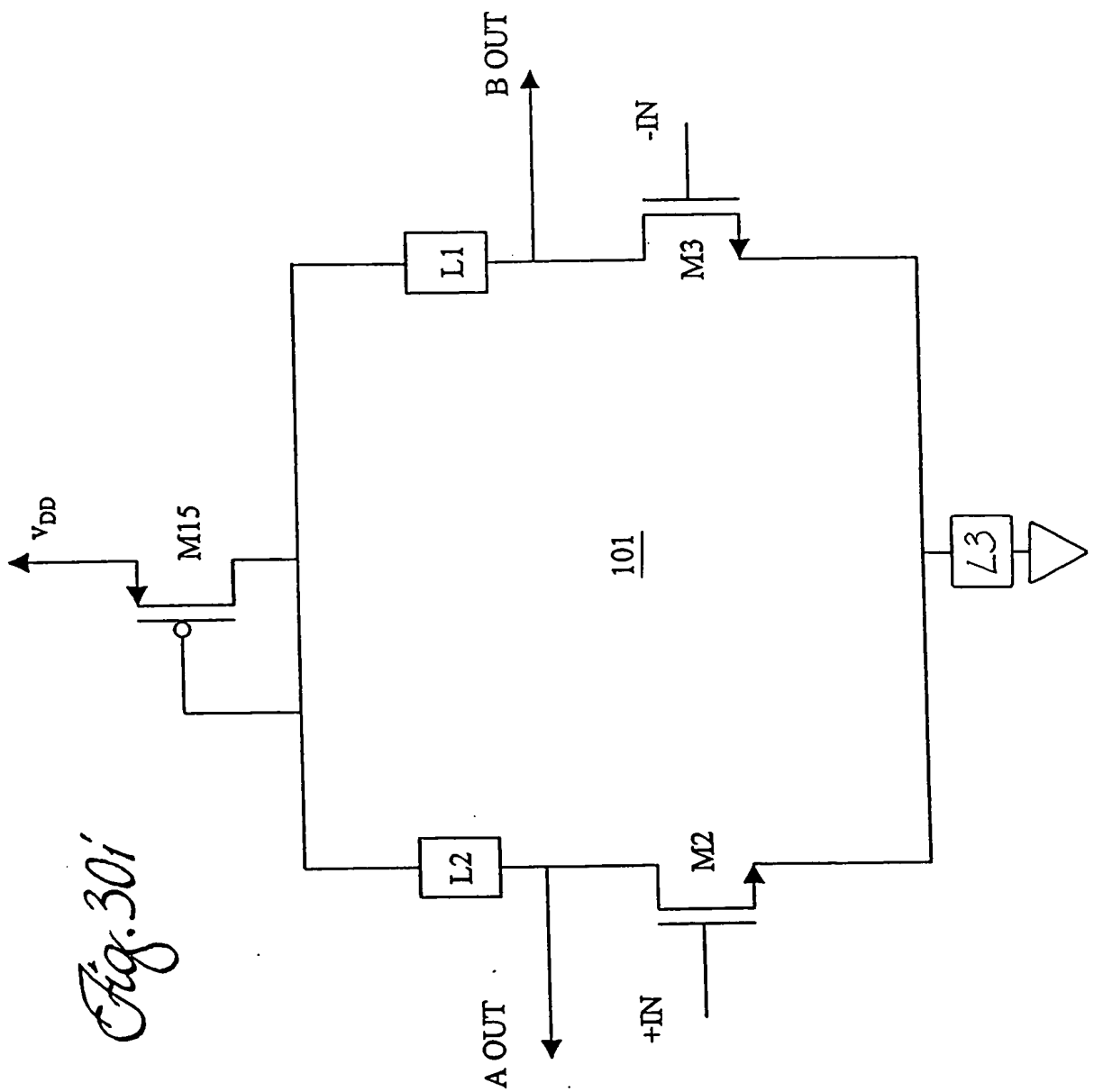


Fig. 30i



Fig. 30j

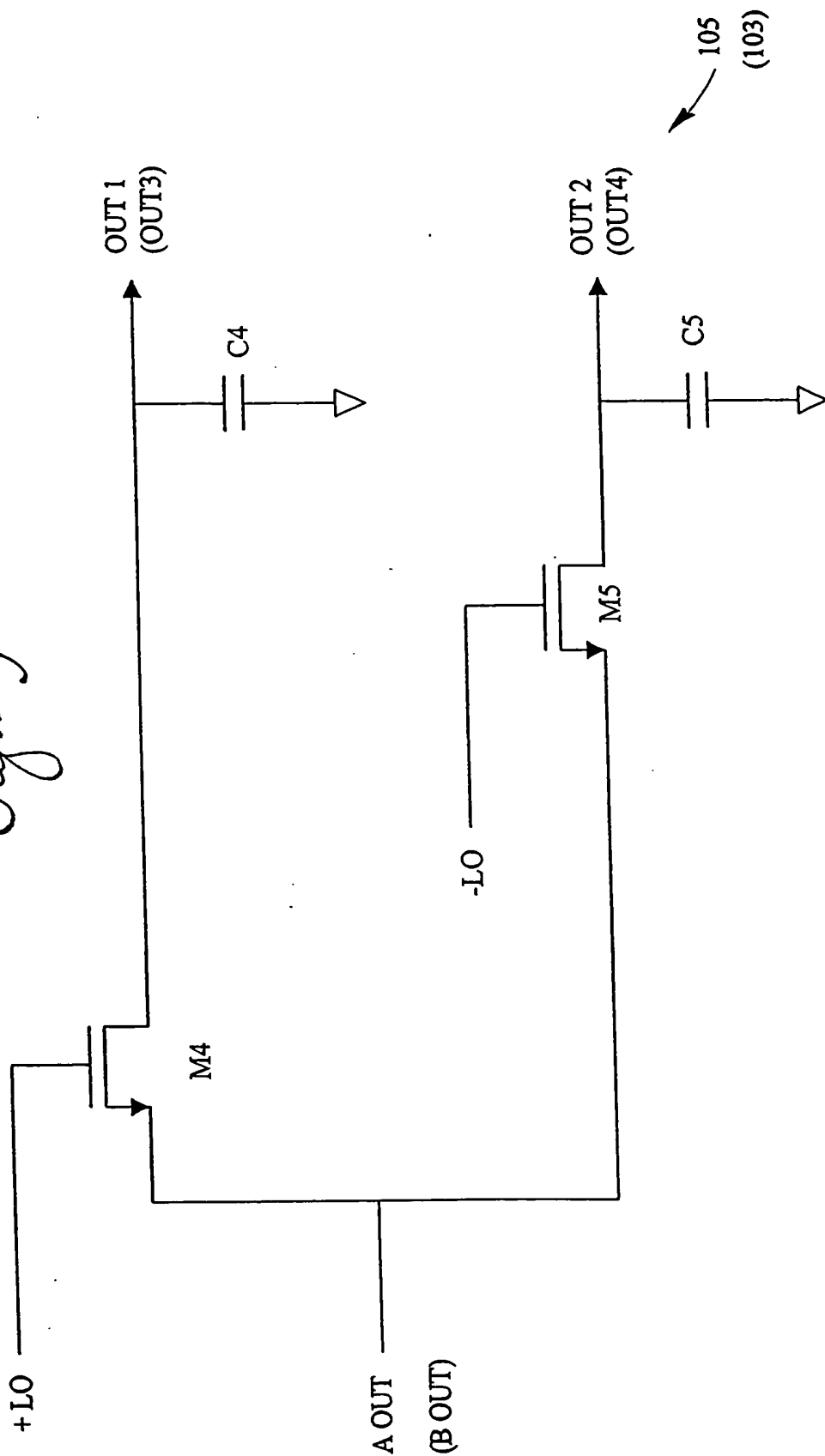
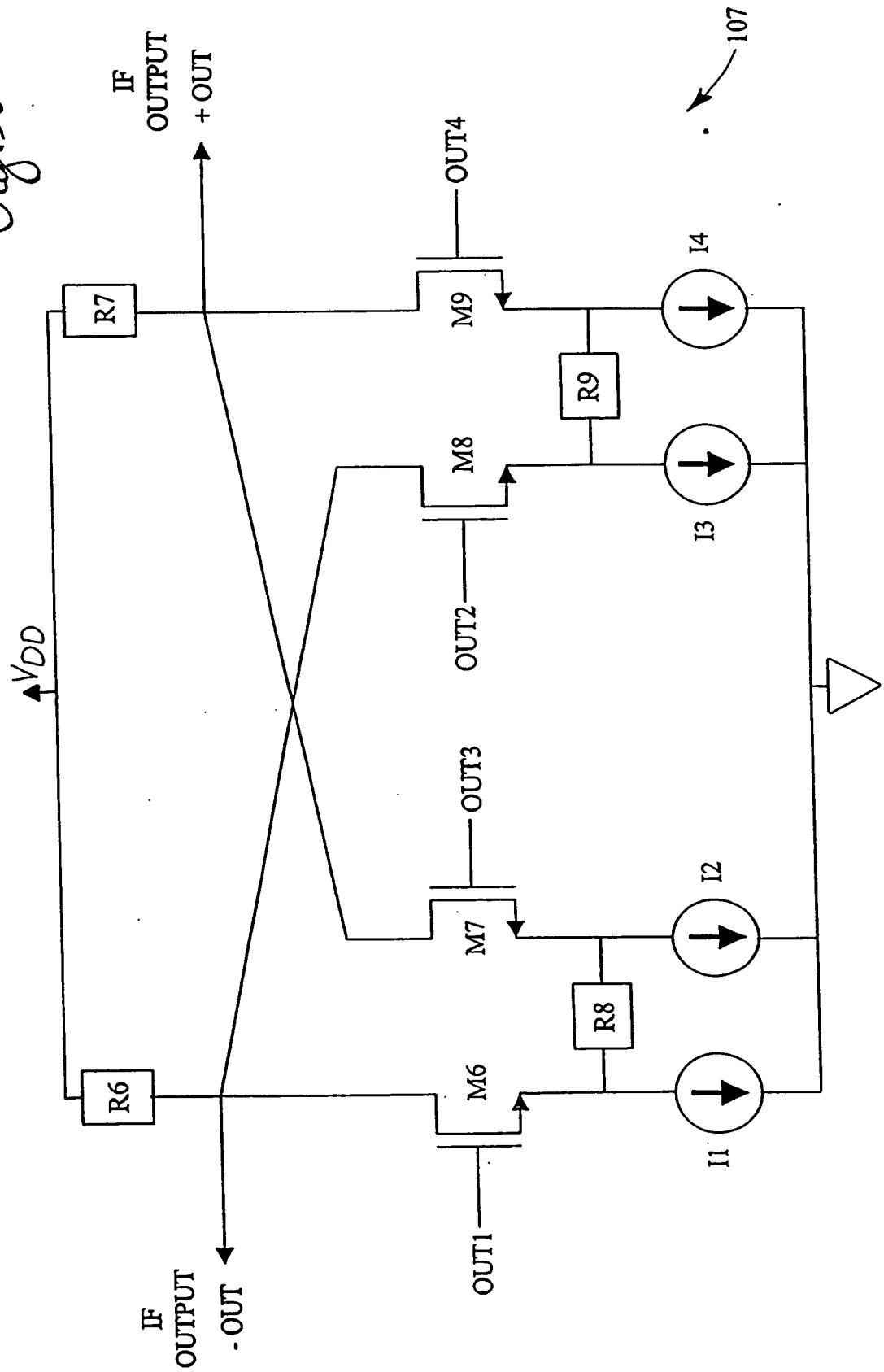
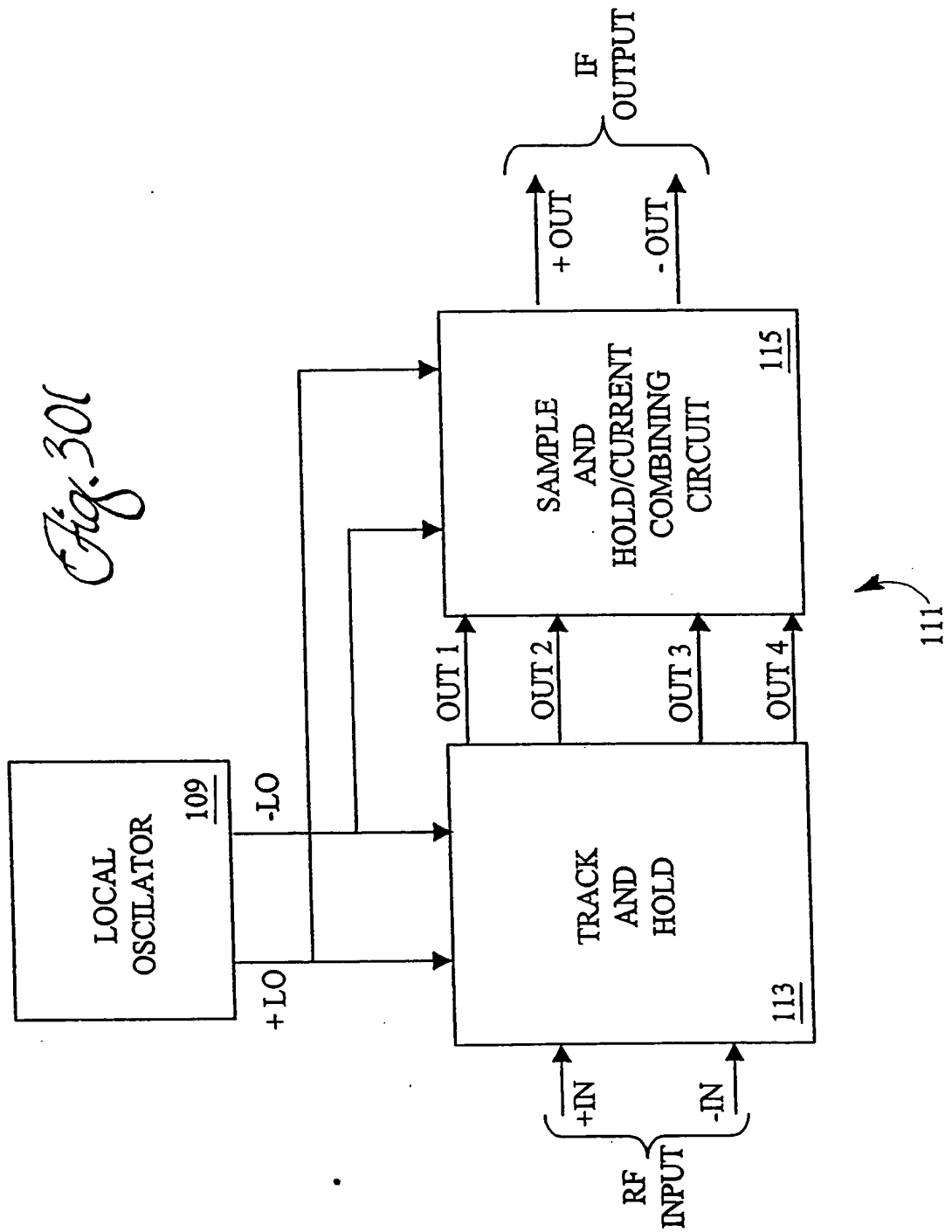
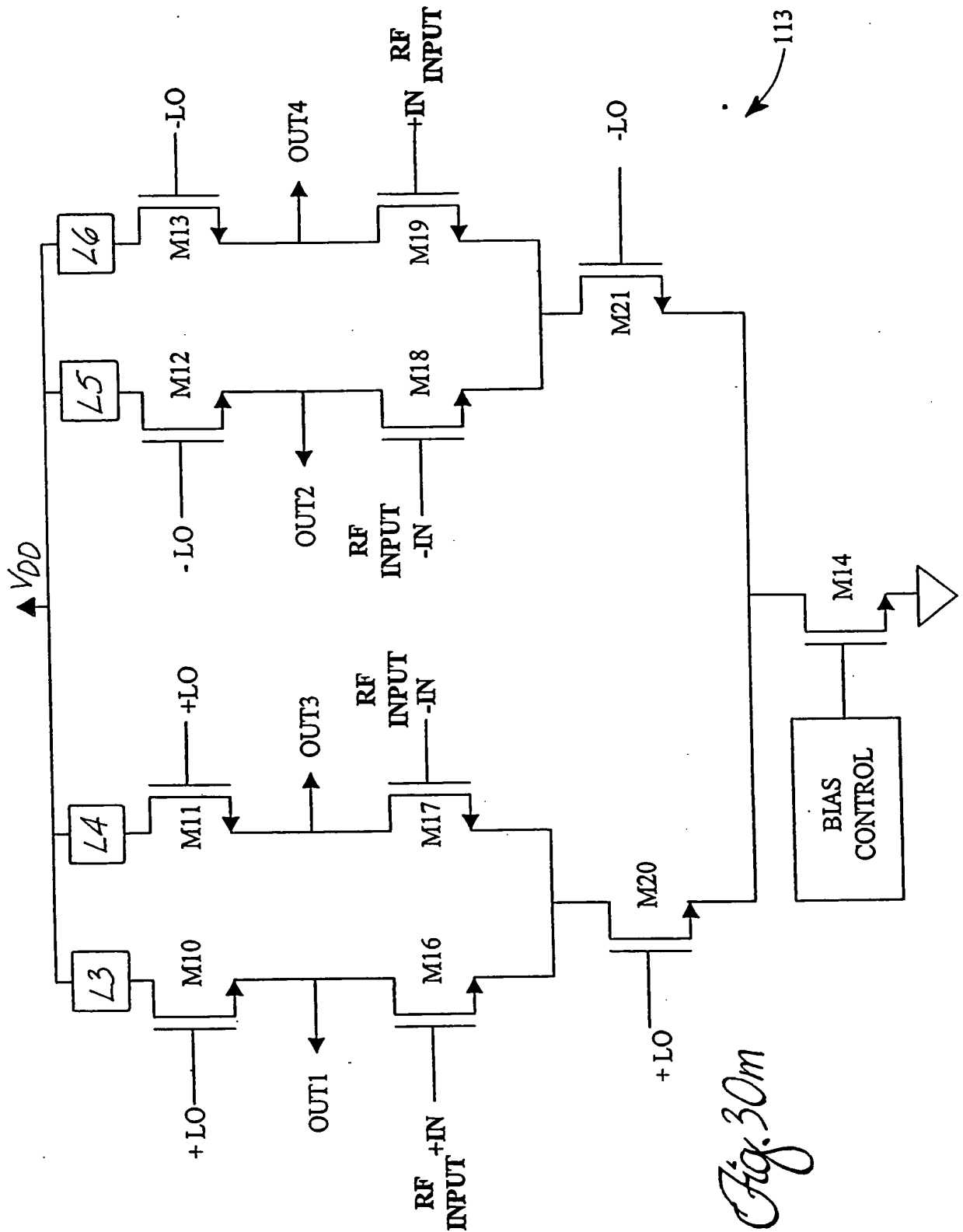
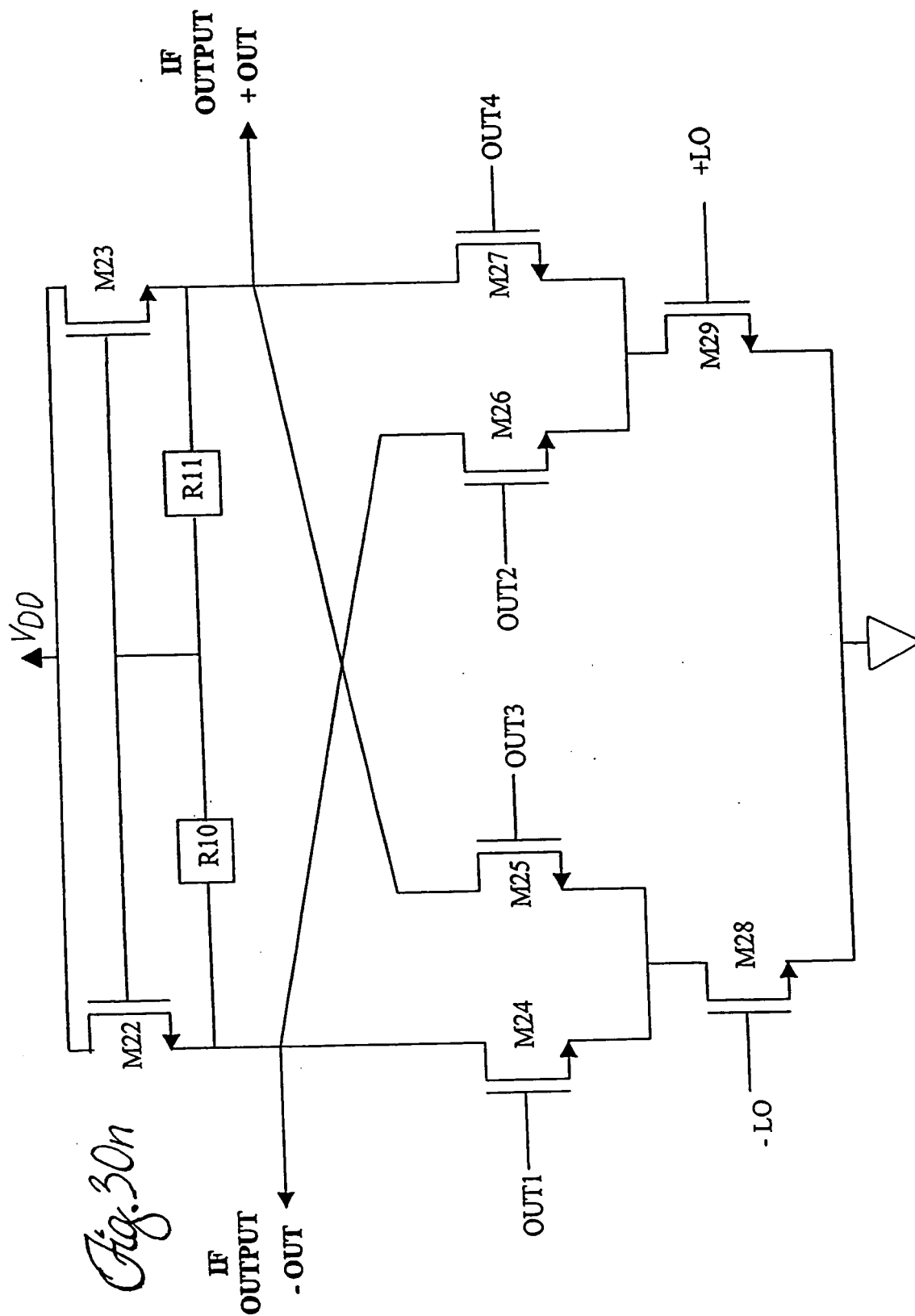


Fig. 30k

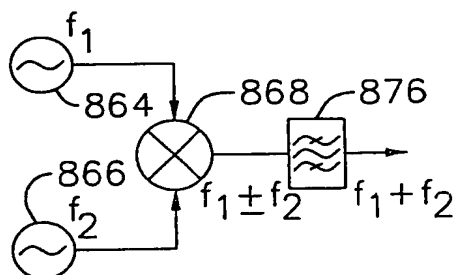




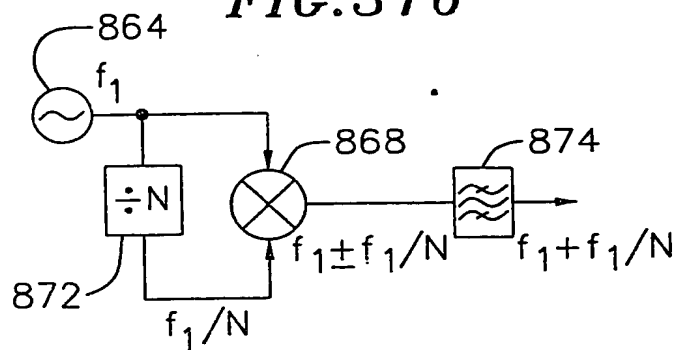




*FIG. 31a*



**FIG. 31b**



*FIG. 32*

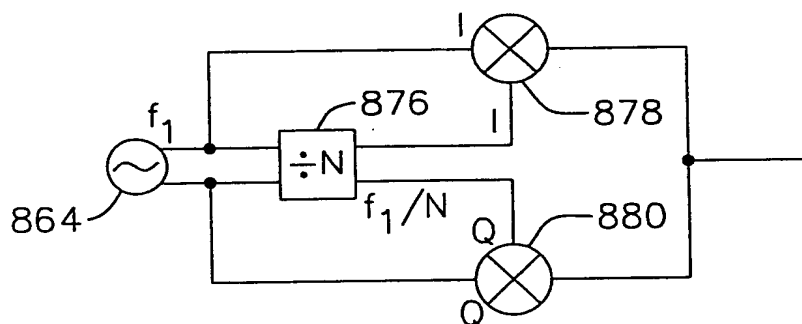


FIG. 33

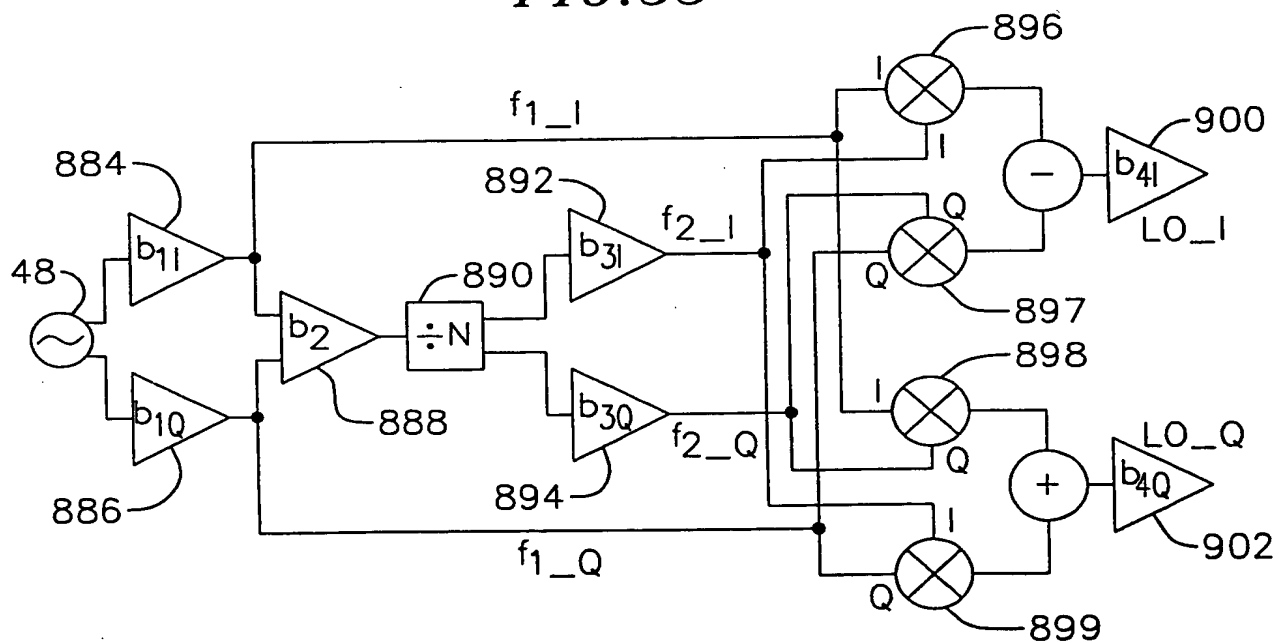


FIG. 33b

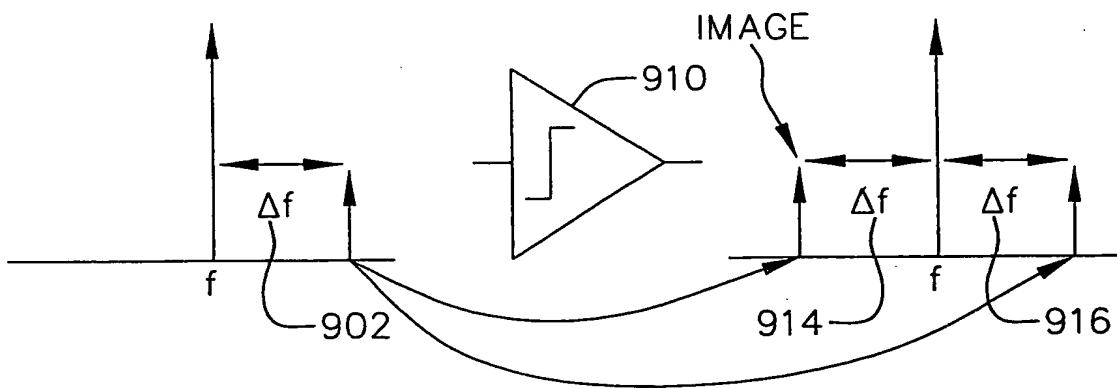


FIG. 34

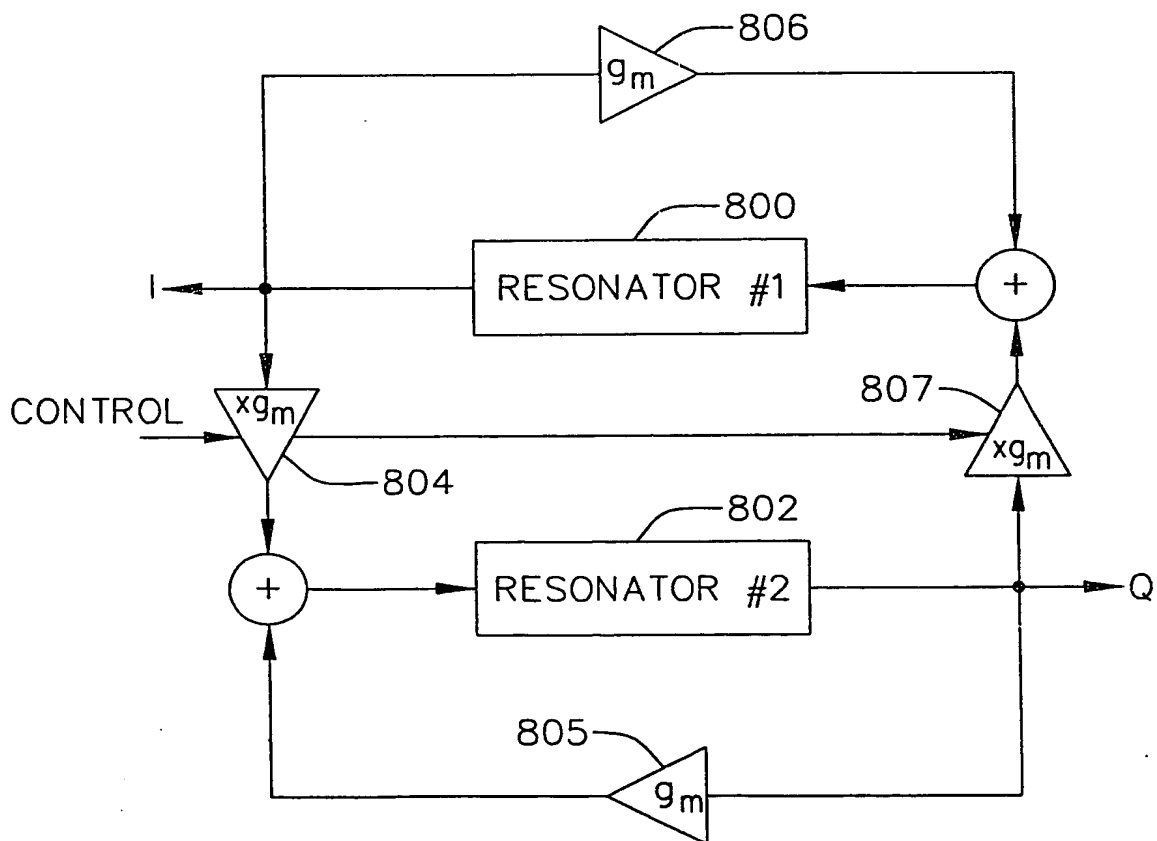
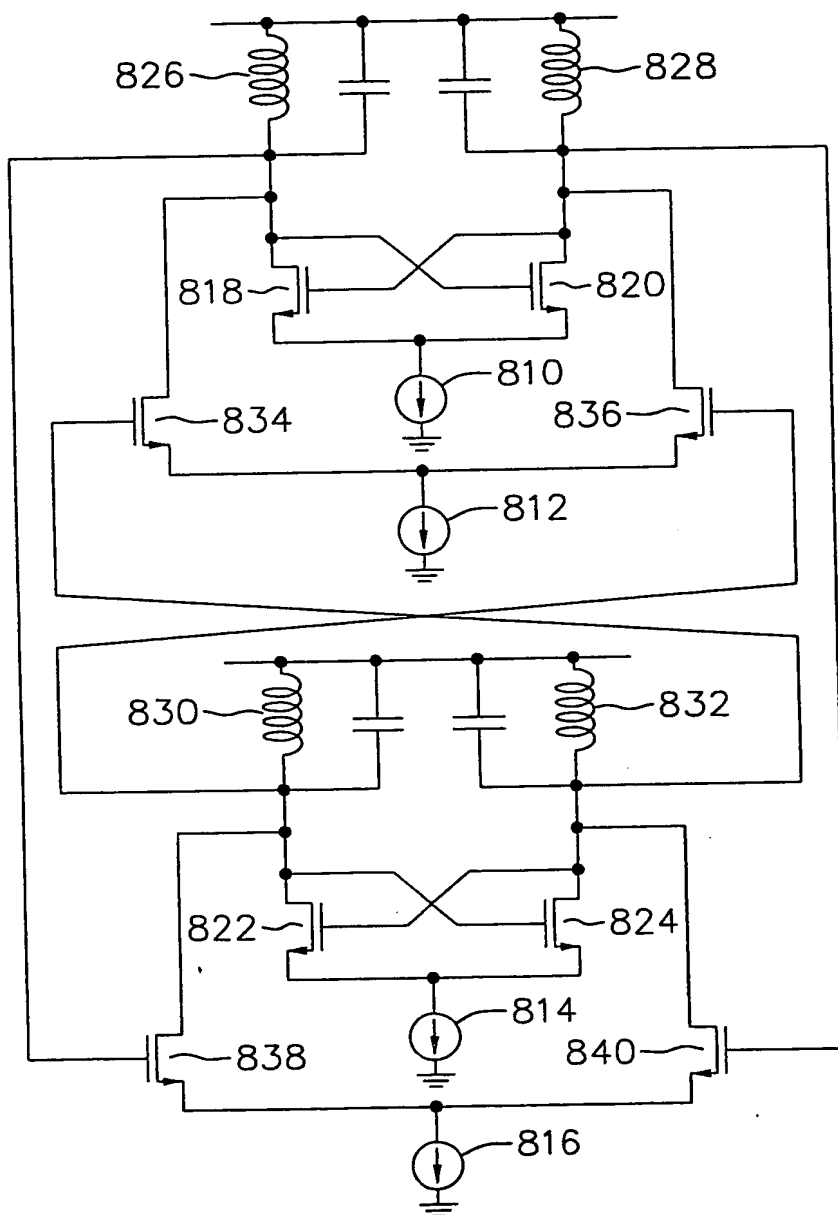
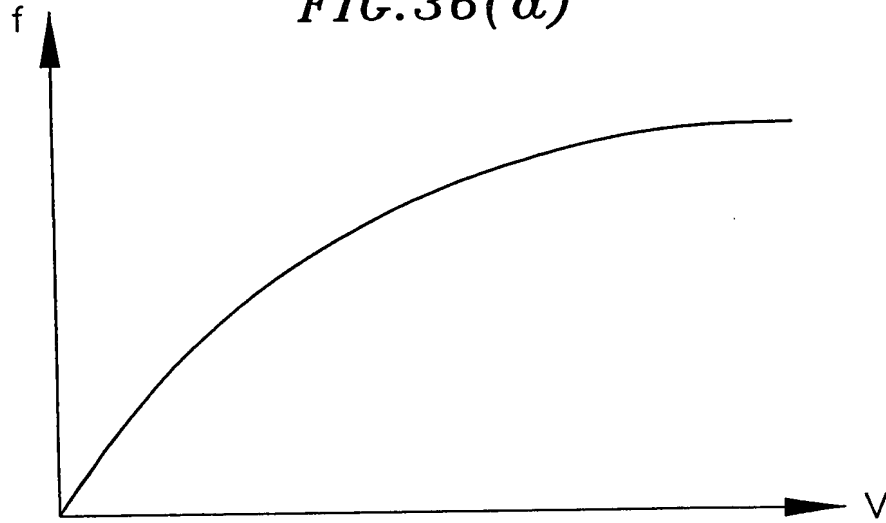


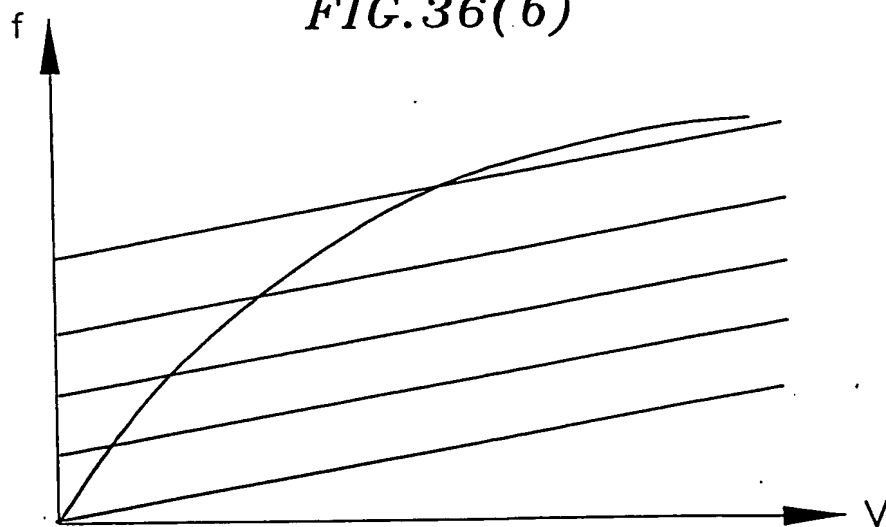
FIG.35





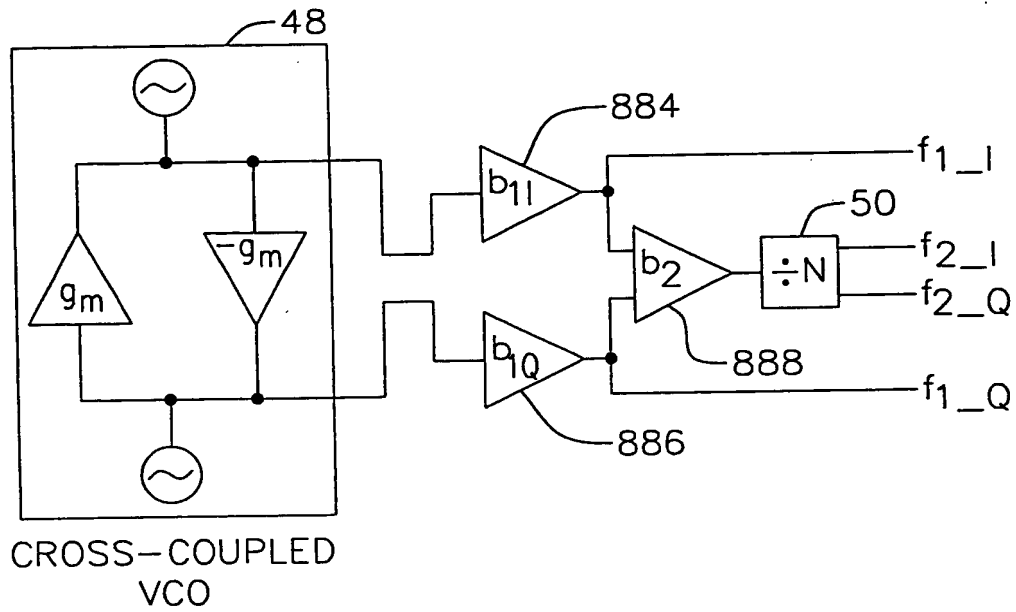
*FIG.36(a)*

TYPICAL VCO TUNING CURVE

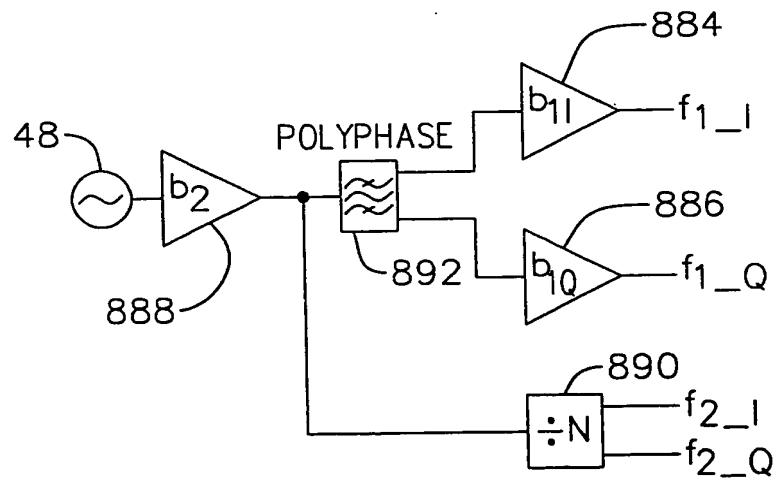
*FIG.36(b)*

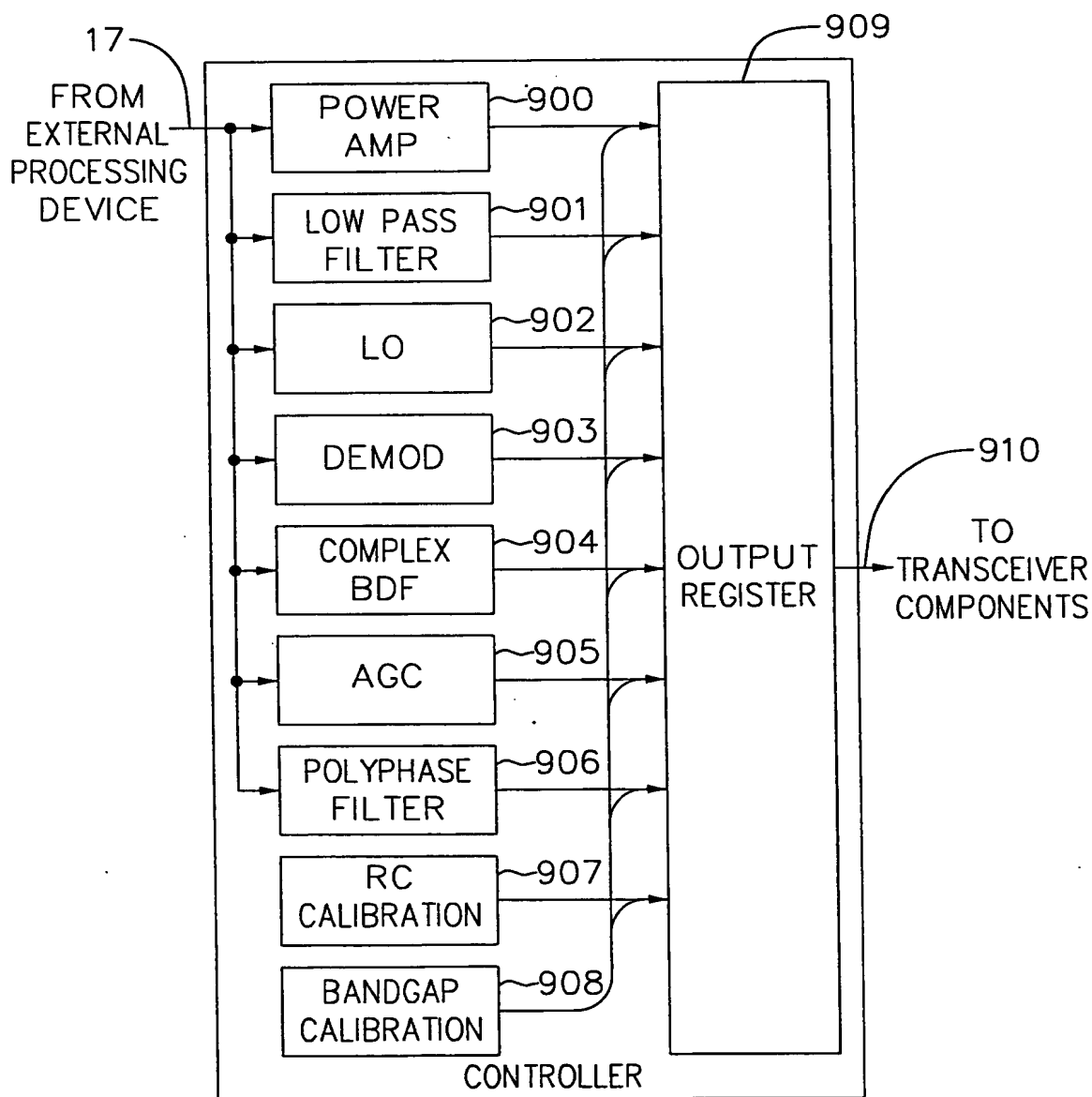
SEGMENTED VCO TUNING CURVE

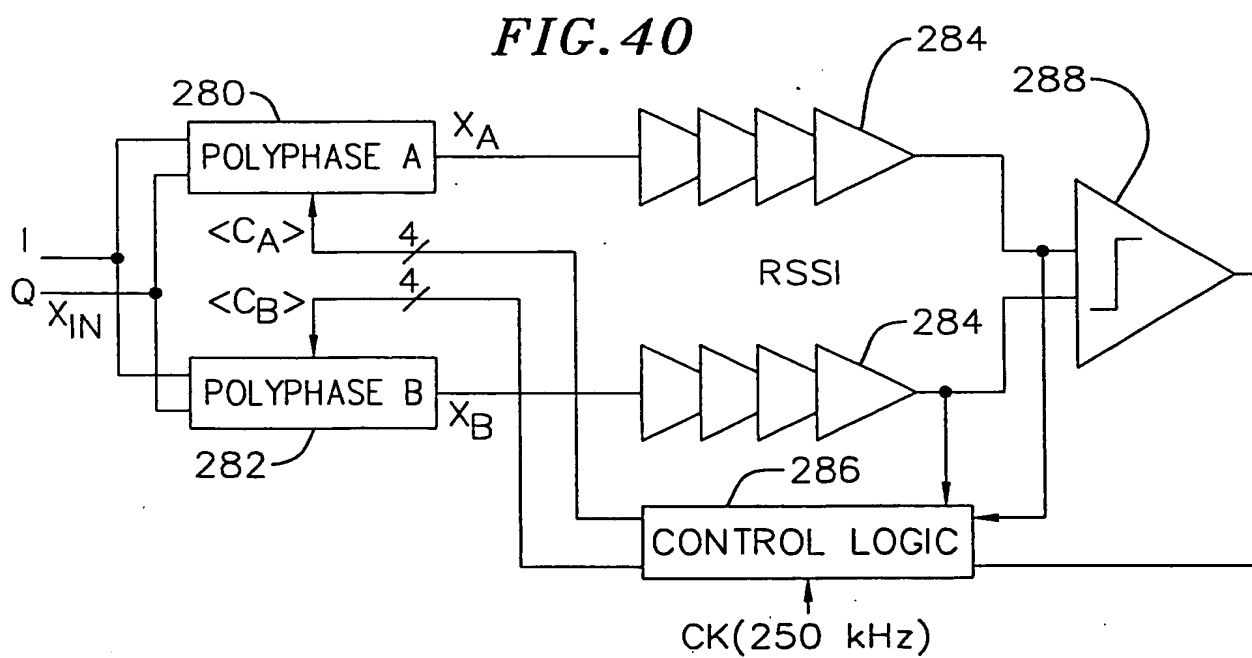
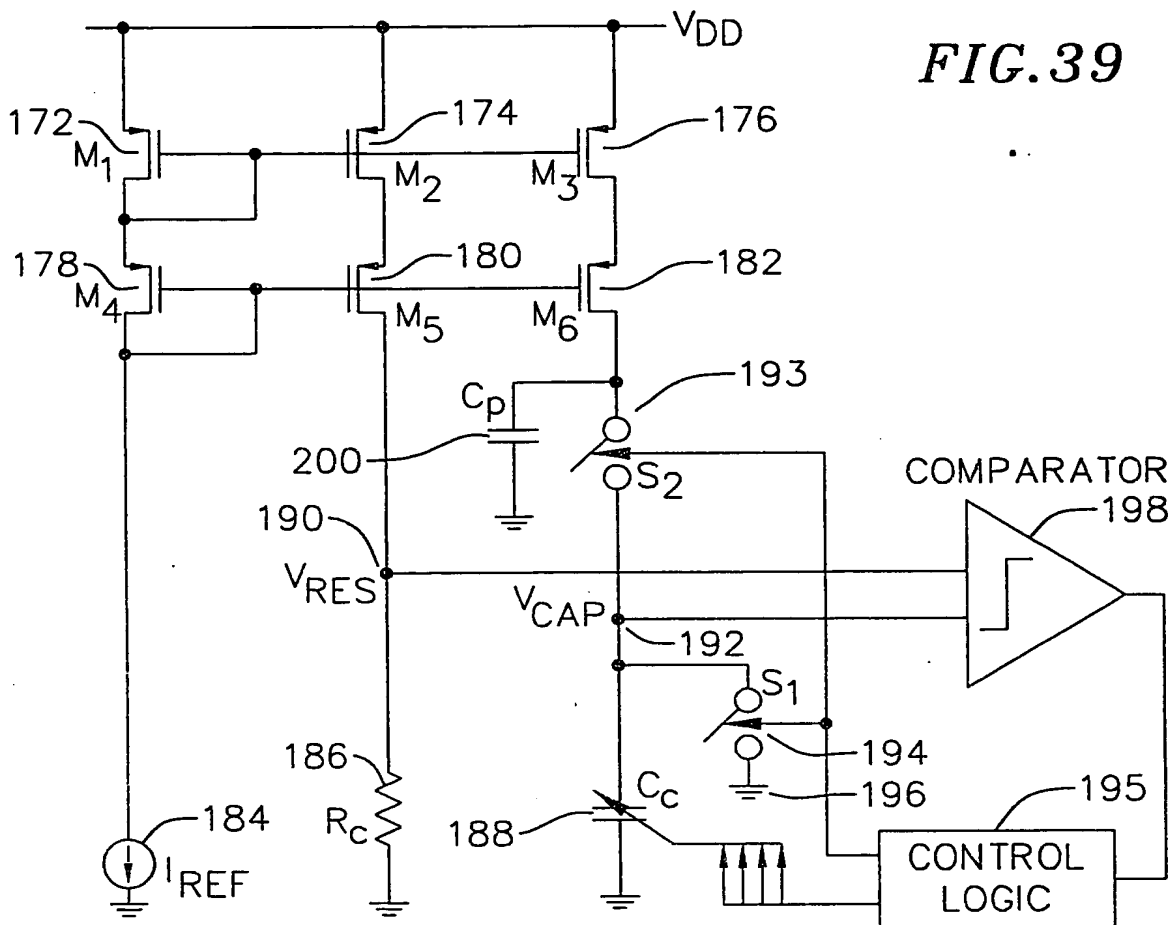
**FIG. 37a**

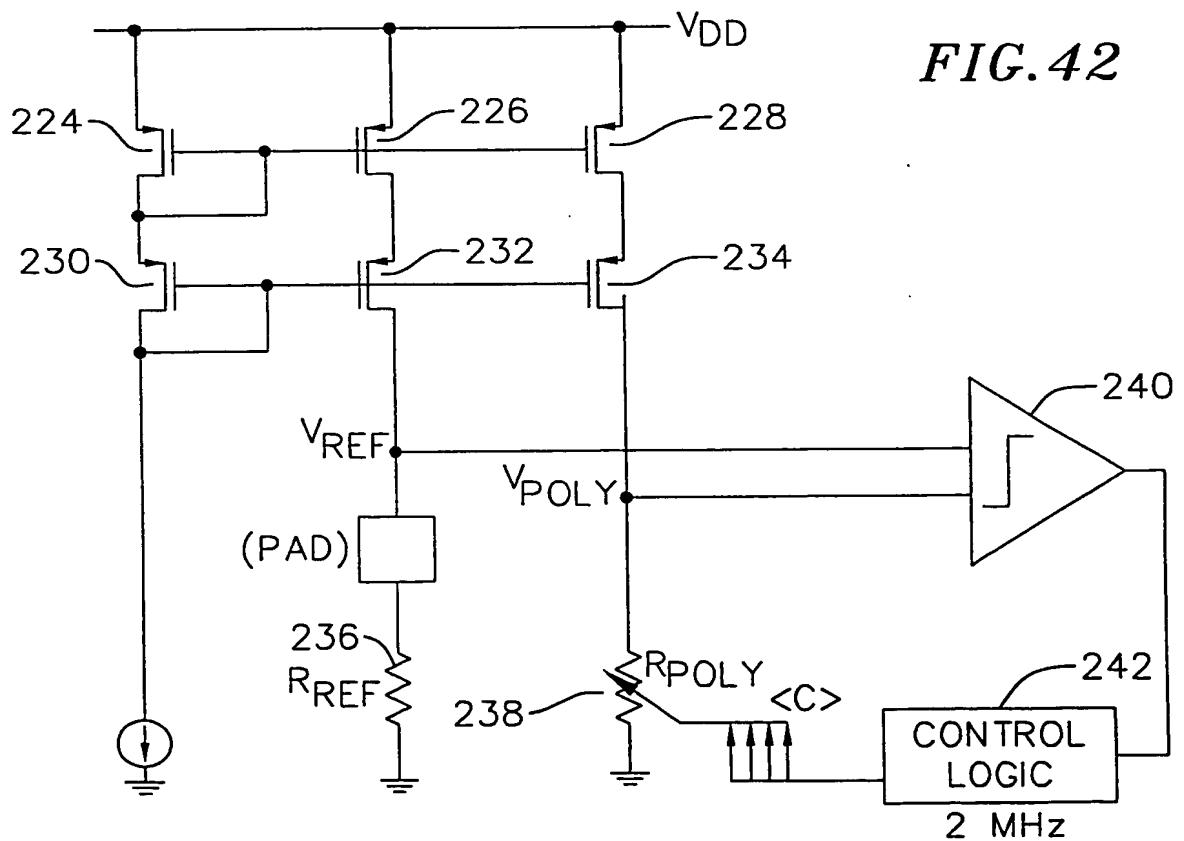
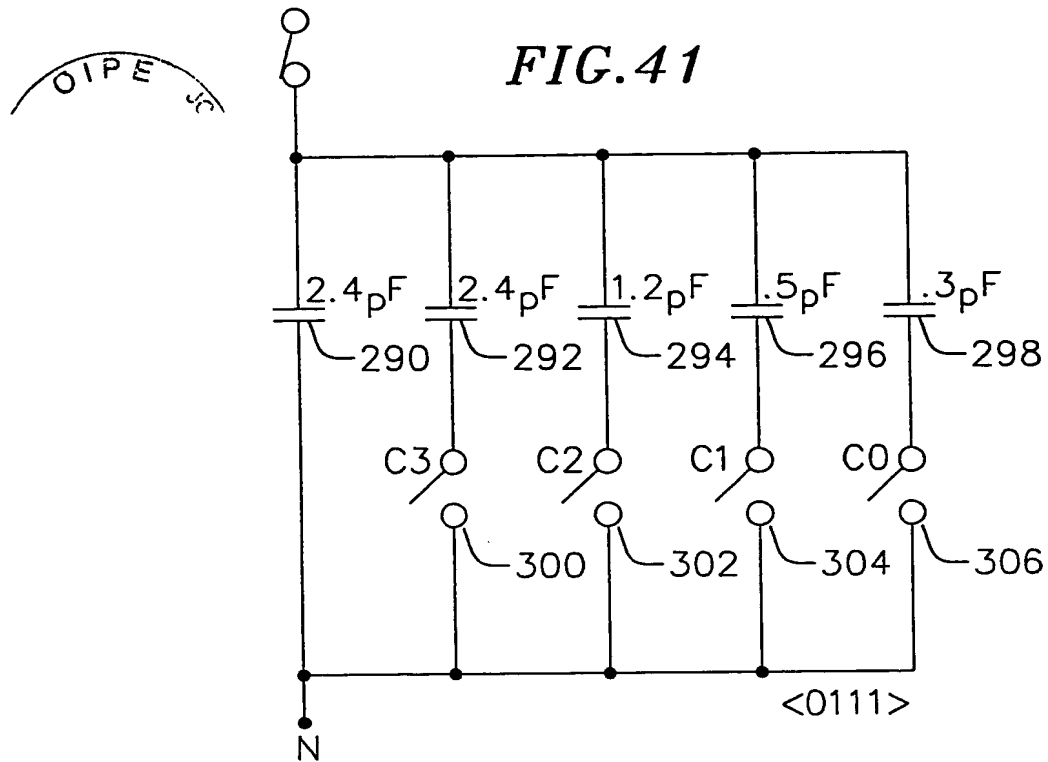


**FIG. 37b**

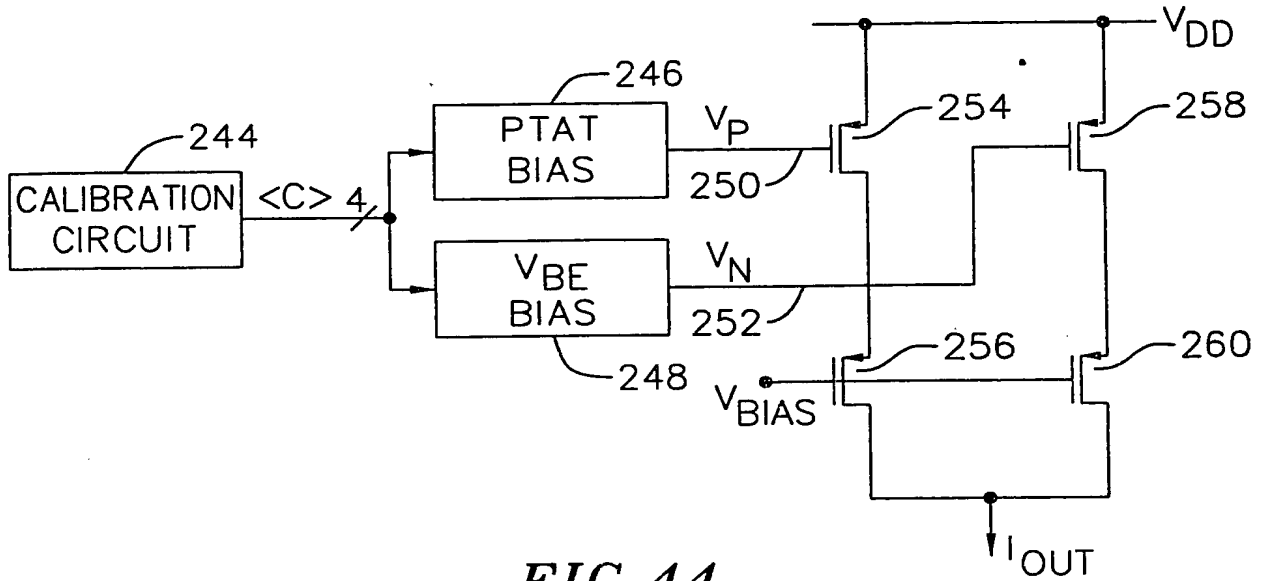


*FIG.38*

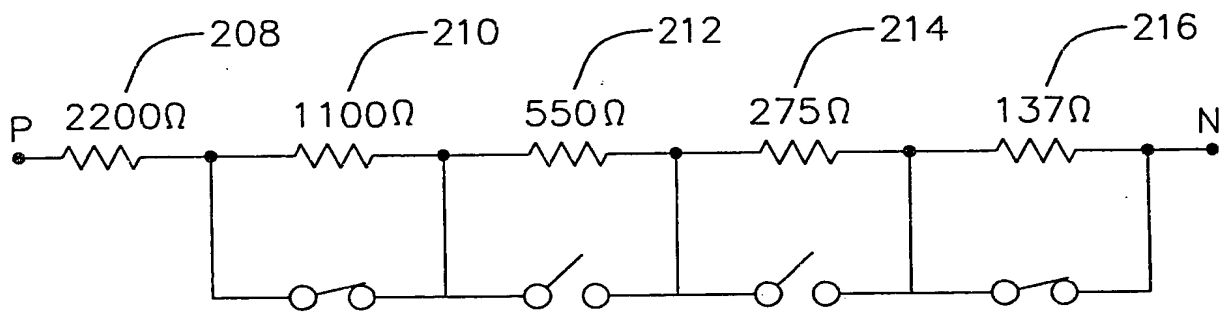




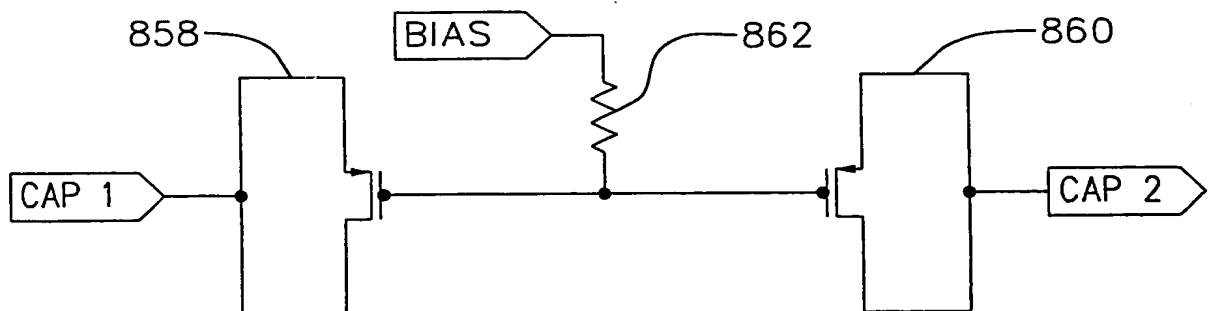
**FIG. 43**



**FIG. 44**



**FIG. 45**



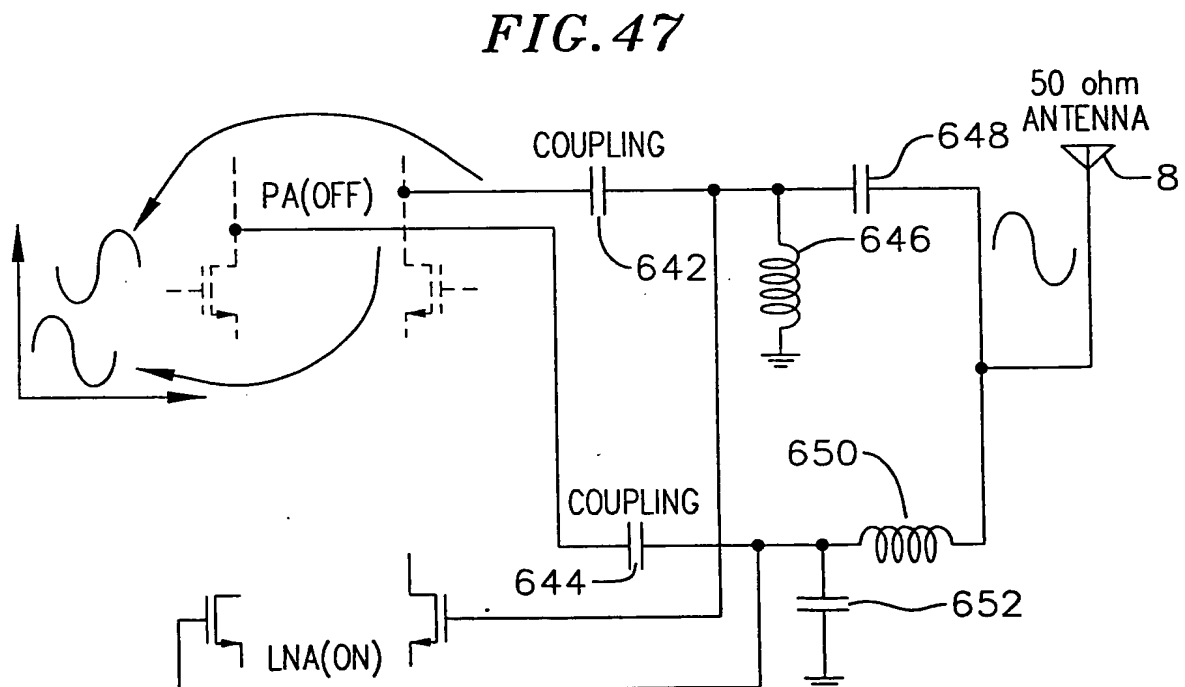
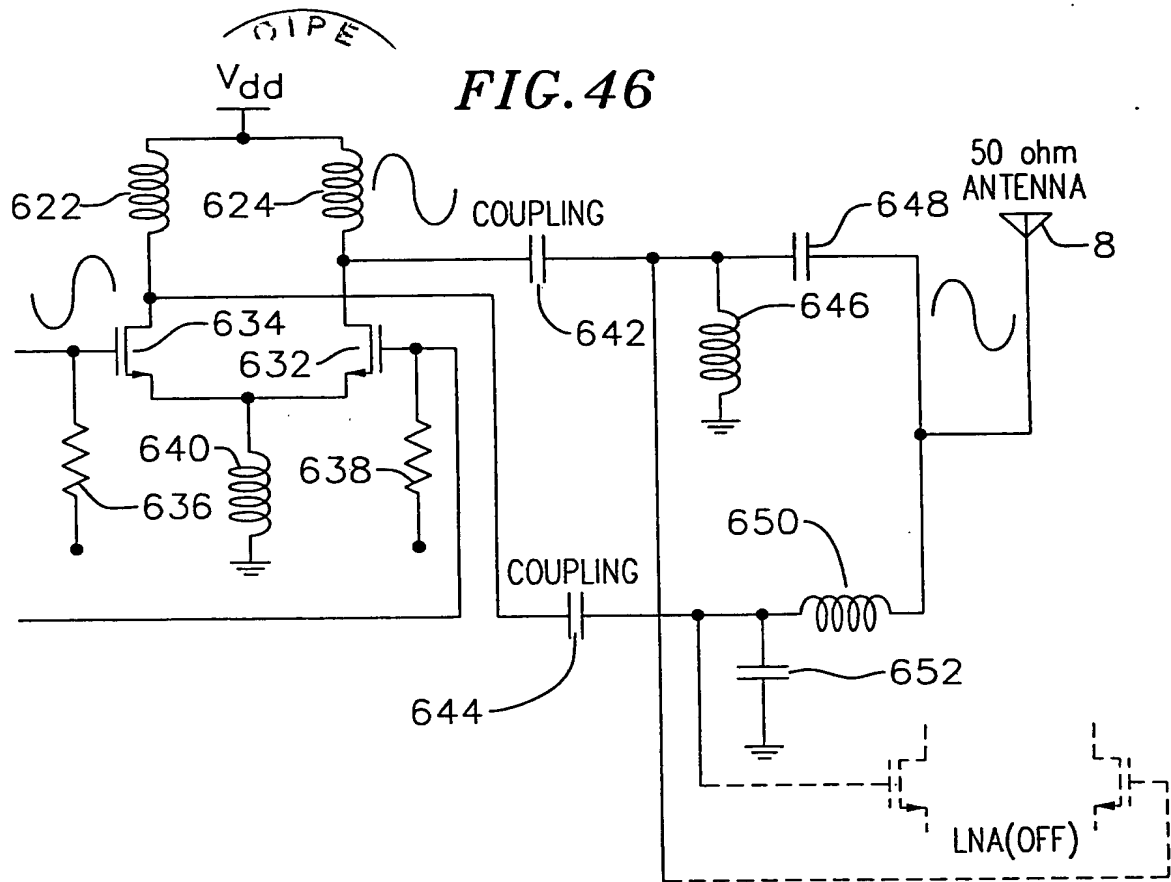
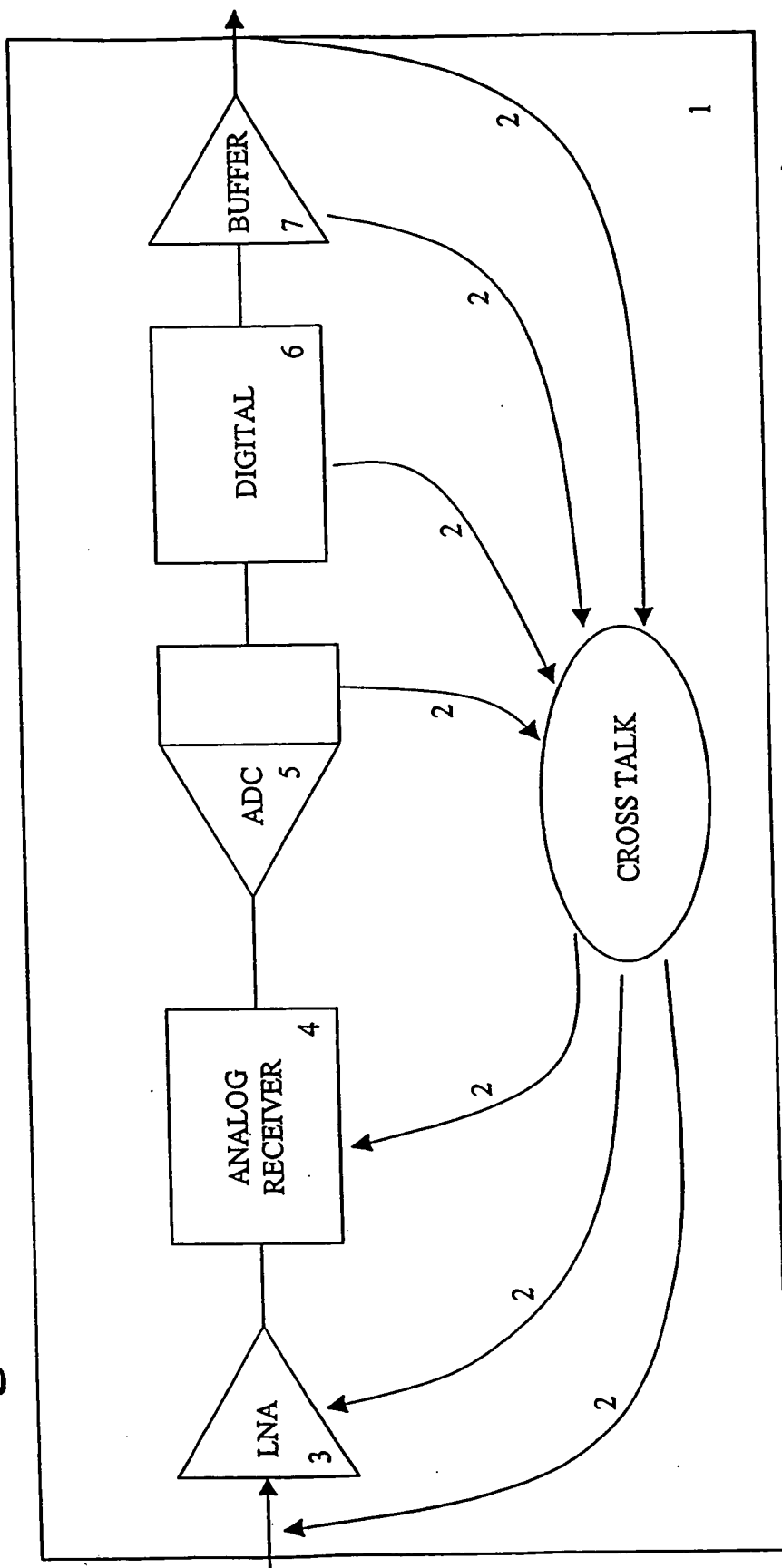
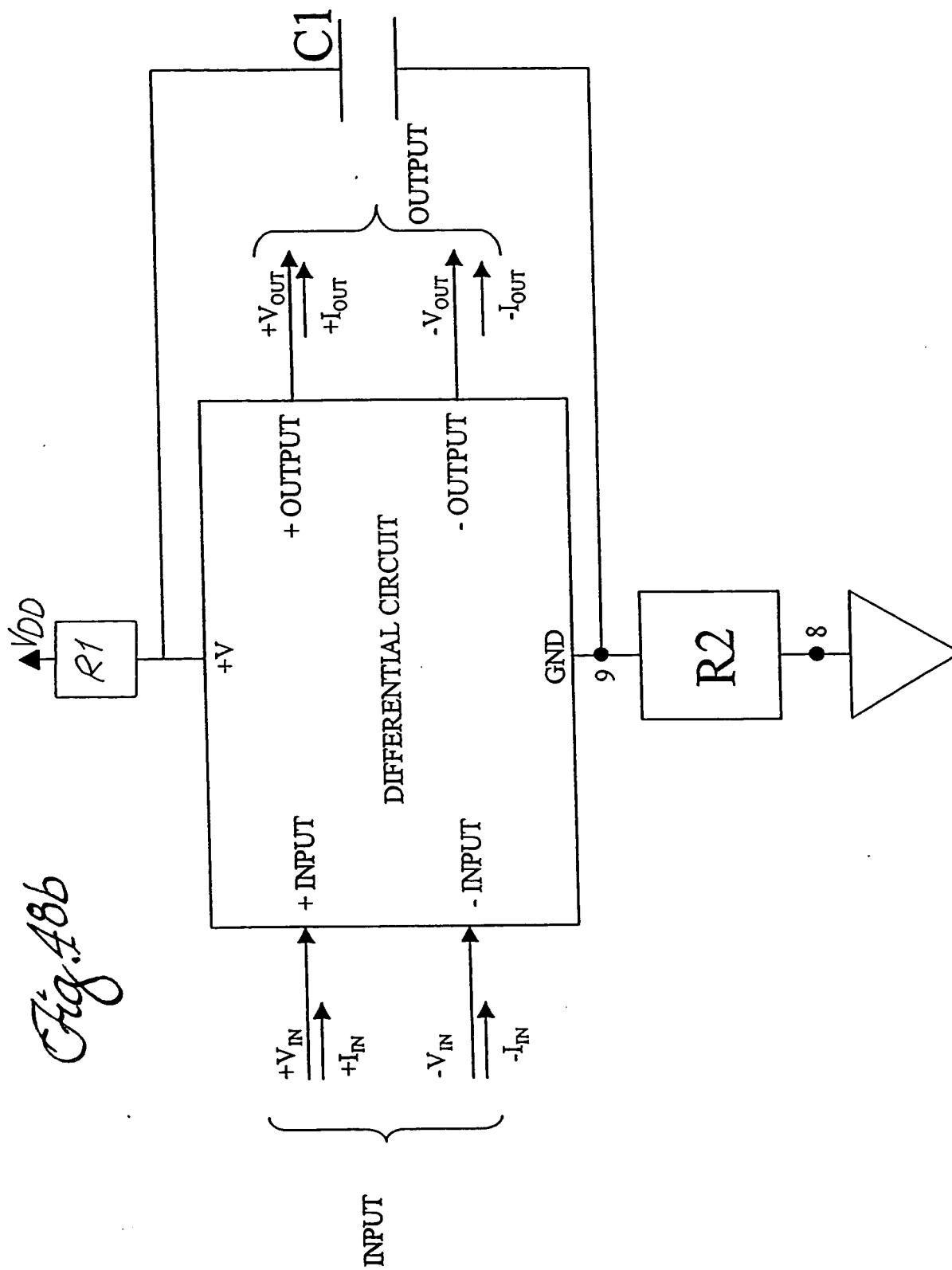
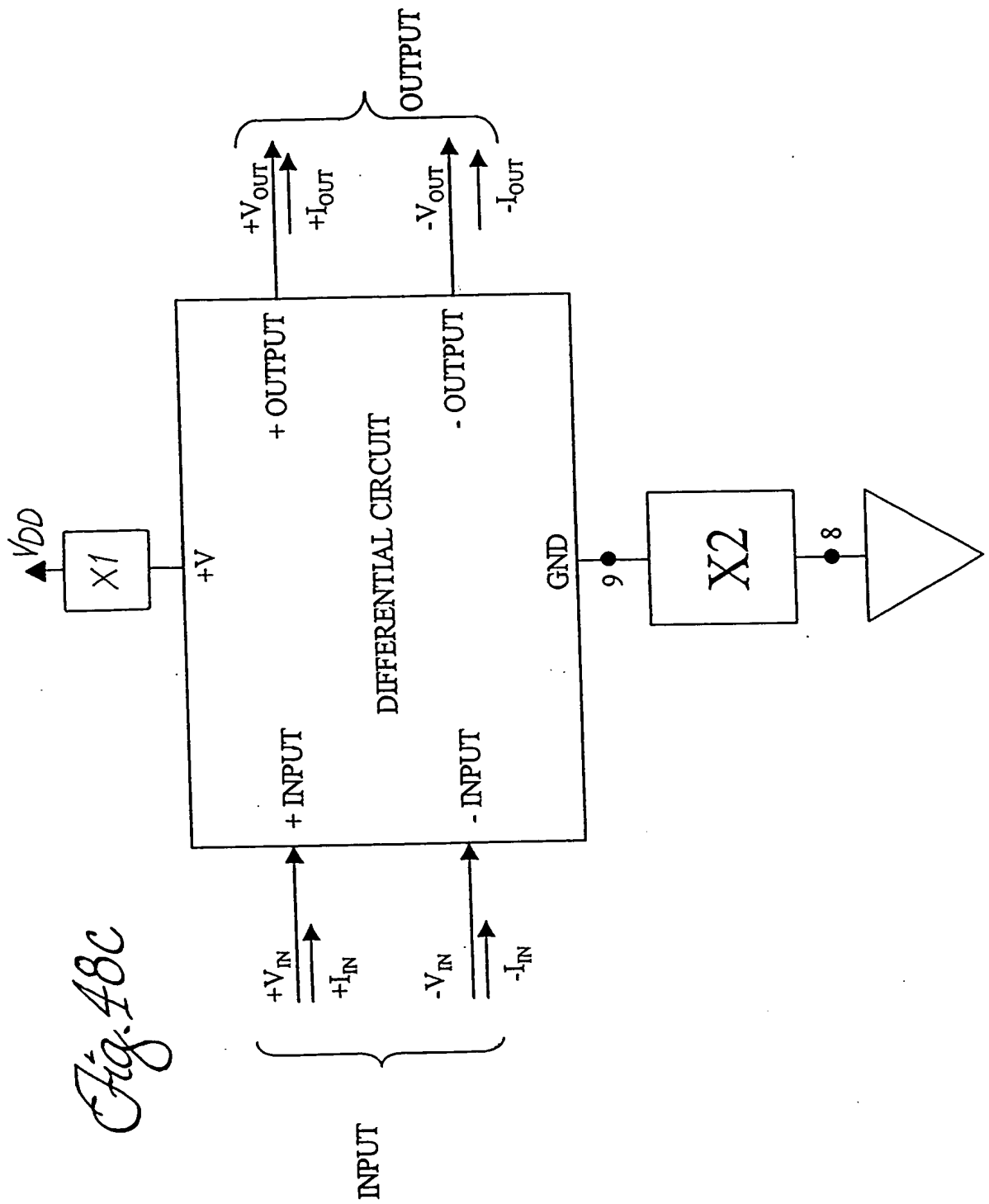


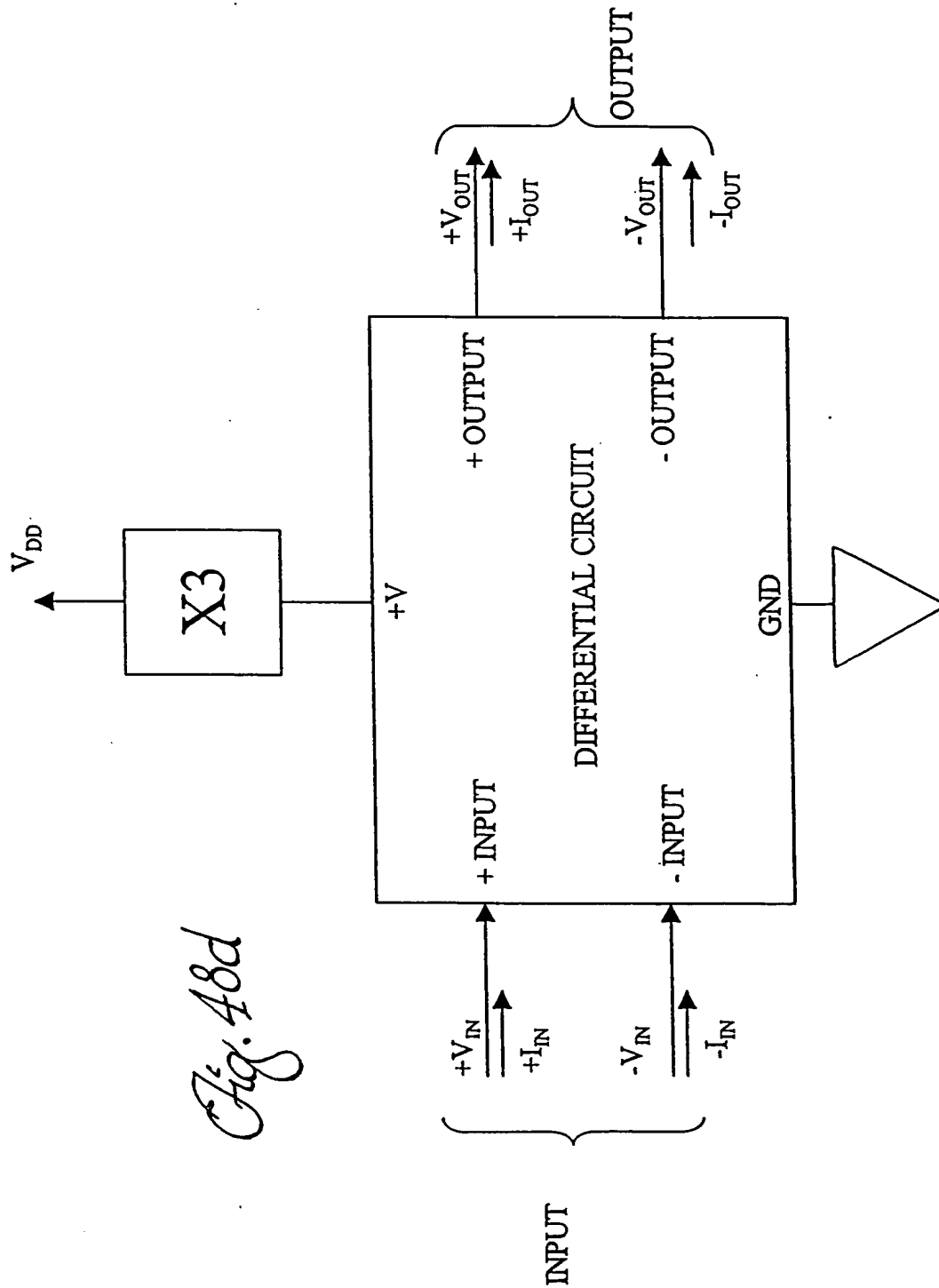
Fig. 48a











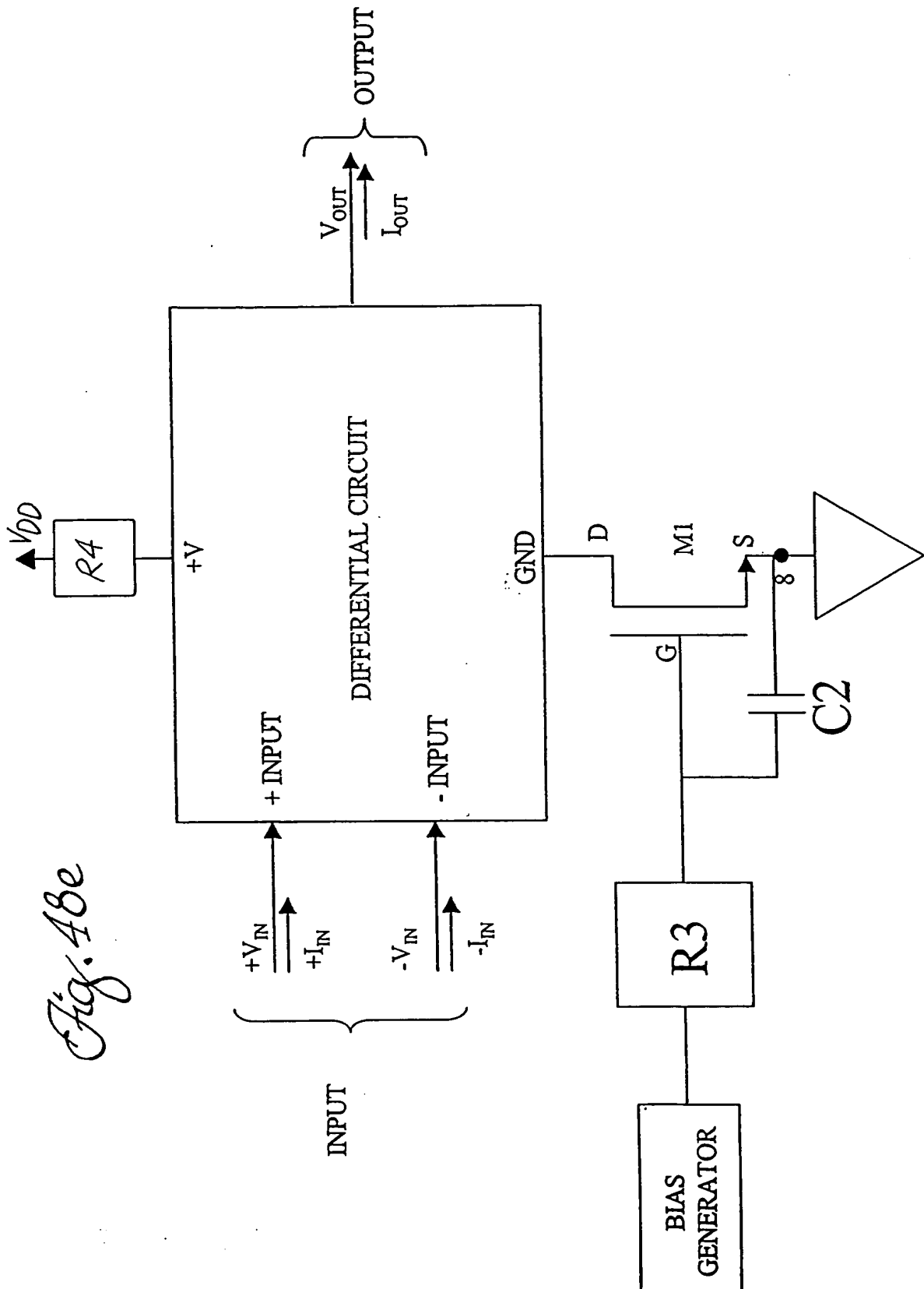


Fig. 48e

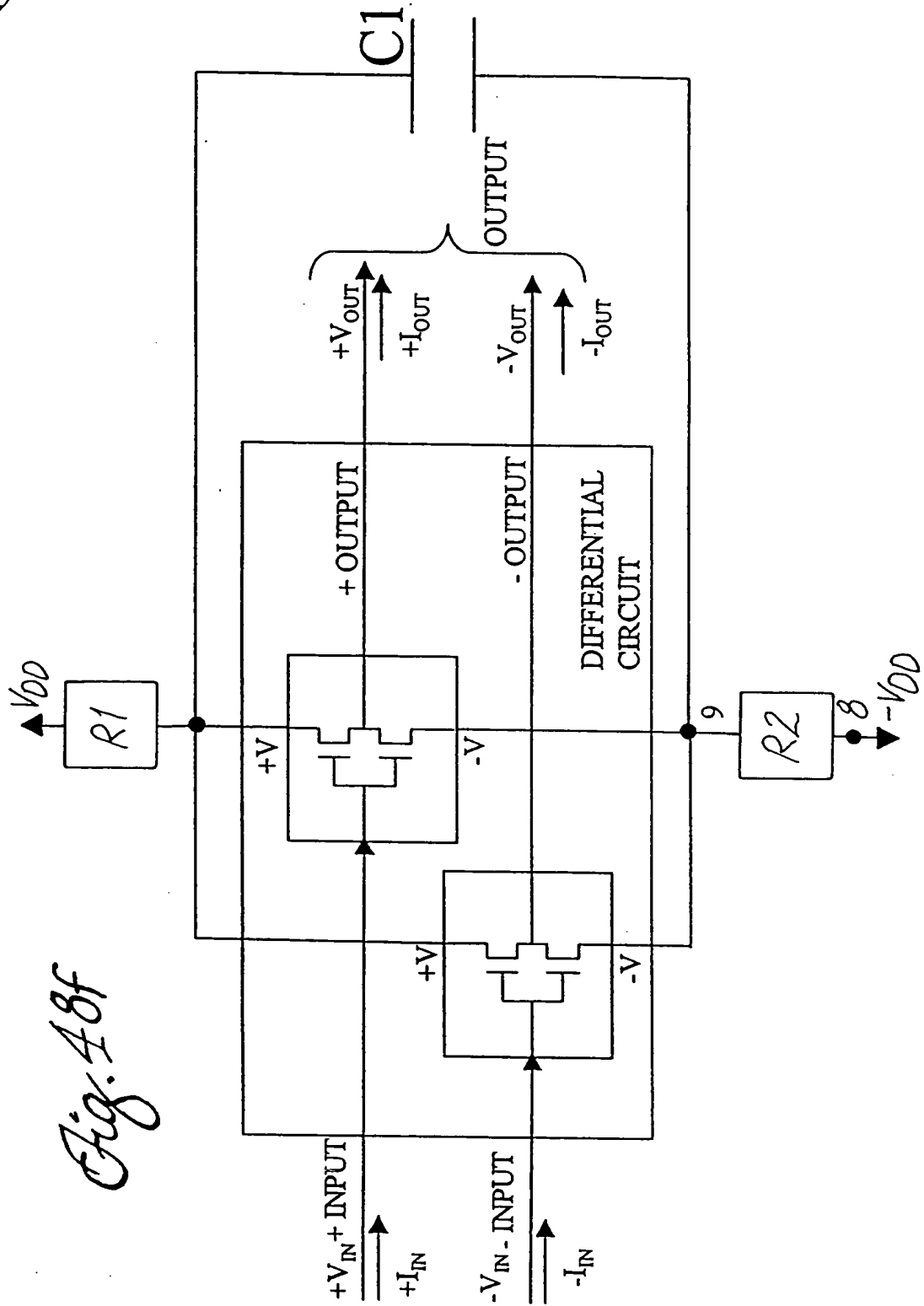


Fig. 48f